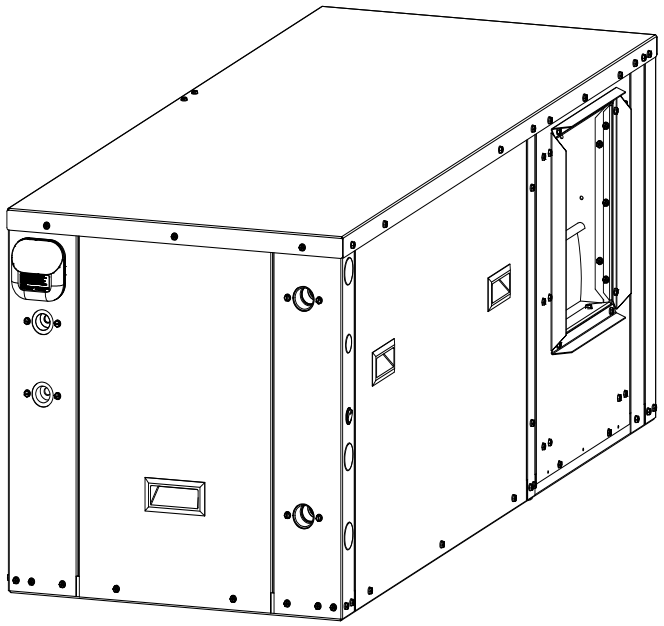
ENERTECH
ENERGY + TECHNOLOGY

Engineering Submittal Data

ZS/ZT with Connected Controls Models
Packaged Water-to-Air Multi-Positional Heat Pumps



Project Name: _____
Engineer: _____
Contractor: _____
Architect: _____
Date Received: _____
Date Submitted: _____

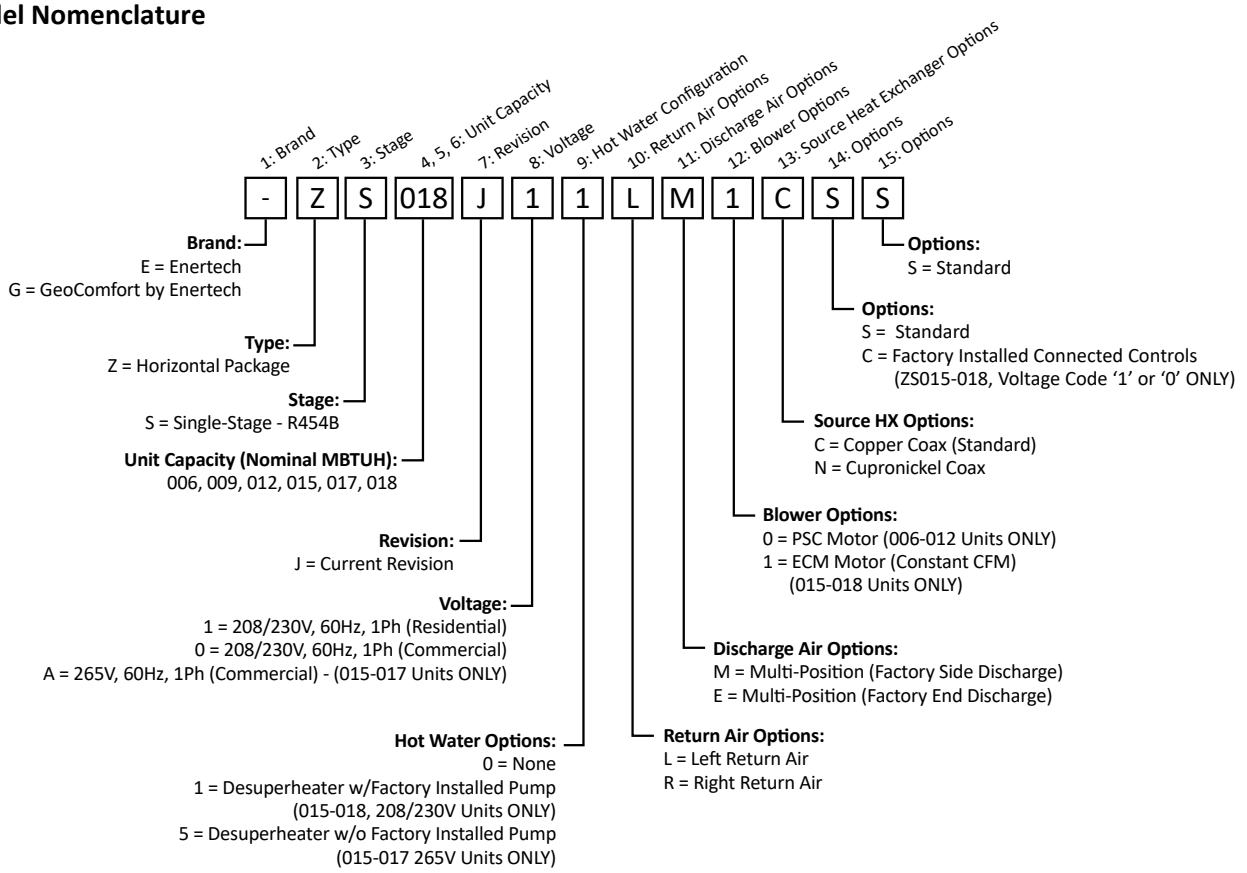
Unit Tag	Model Number

Notes:

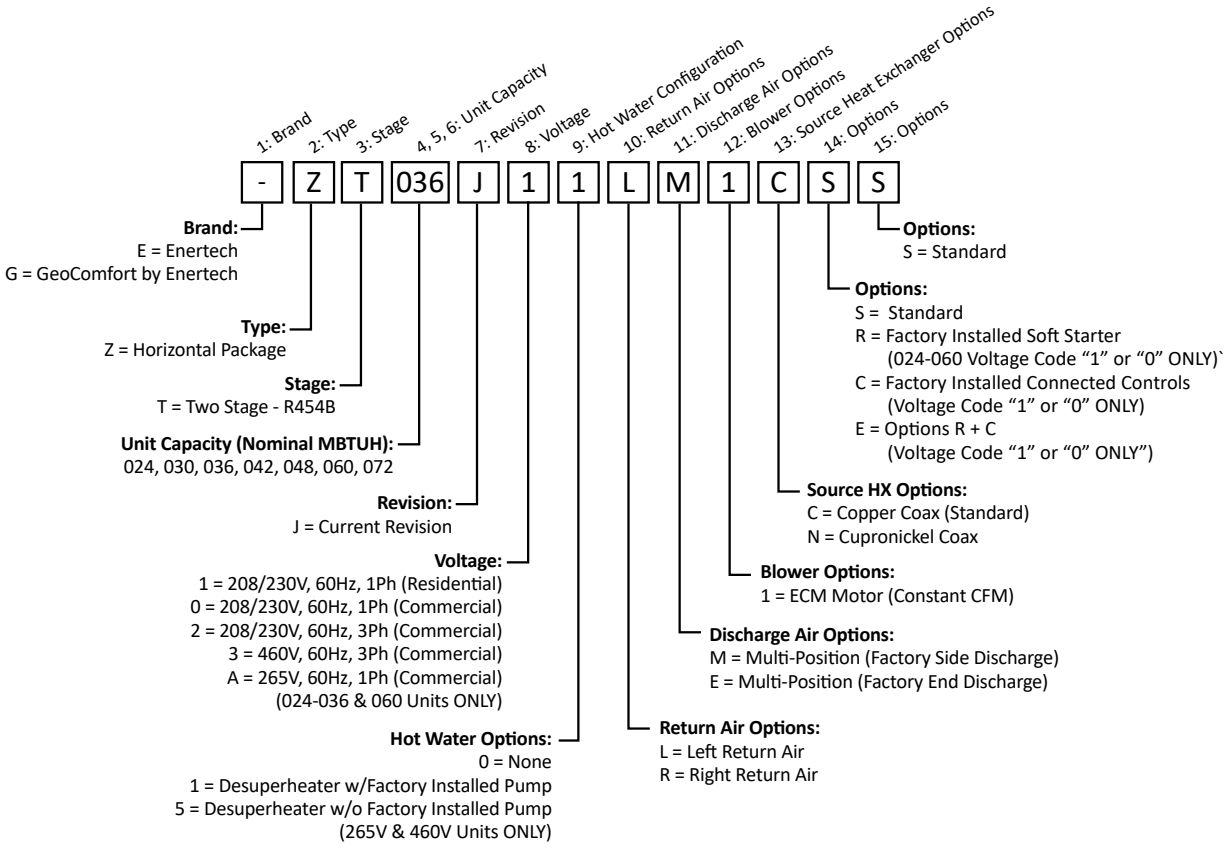
20D455-06NN

Nomenclature Decoder

ZS Model Nomenclature



ZT Model Nomenclature



AHRI Performance Data

AHRI Performance Data								
Ground Loop Heat Pump								
Model	**Full Load Cooling**		**Full Load Heating**		**Part Load Cooling**		**Part Load Heating**	
	Btu/hr	**EER**	**Btu/hr**	**COP**	**Btu/hr**	**EER**	**Btu/hr**	**COP**
ZT024	26,400	18.8	18,400	3.9	20,000	26.8	14,875	4.1
ZT030	32,625	17.6	24,400	3.7	24,275	24.1	19,775	3.9
ZT036	36,725	18.9	28,375	3.8	28,100	26.6	22,075	4.1
ZT042	44,750	18.8	32,900	3.6	35,225	26.5	26,400	4.0
ZT048	48,700	17.3	36,900	3.7	38,000	24.3	29,300	4.1
ZT060	58,875	17.4	44,550	3.6	45,800	24.0	36,400	4.0
ZT072	69,500	15.6	55,500	3.5	56,000	21.3	44,450	3.9
Ground Water Heat Pump								
Model	**Full Load Cooling**		**Full Load Heating**		**Part Load Cooling**		**Part Load Heating**	
	Btu/hr	**EER**	**Btu/hr**	**COP**	**Btu/hr**	**EER**	**Btu/hr**	**COP**
ZT024	28,200	25.0	23,175	4.6	20,800	32.8	16,725	4.8
ZT030	34,550	23.2	30,075	4.5	24,975	28.9	22,000	4.5
ZT036	39,400	25.2	34,775	4.6	29,100	31.8	24,700	4.8
ZT042	47,250	24.6	40,300	4.4	36,375	32.4	28,900	4.6
ZT048	52,200	22.1	45,900	4.4	39,600	29.4	32,800	4.6
ZT060	62,000	21.8	58,500	4.2	47,300	28.3	39,425	4.5
ZT072	73,500	19.2	67,375	4.0	58,100	24.8	50,125	4.3
Water Loop Heat Pump								
Model	**Full Load Cooling**		**Full Load Heating**		**Part Load Cooling**		**Part Load Heating**	
	Btu/hr	**EER**	**Btu/hr**	**COP**	**Btu/hr**	**EER**	**Btu/hr**	**COP**
ZT024	25,300	16.0	39,950	5.3	18,200	18.0	21,000	6.0
ZT030	31,475	15.3	36,350	5.1	22,475	16.5	26,450	5.5
ZT036	35,175	16.1	42,300	5.1	25,700	18.0	31,000	5.7
ZT042	43,100	16.3	50,100	4.7	32,175	17.8	36,100	5.2
ZT048	46,500	15.1	55,300	4.9	34,600	16.6	40,400	5.6
ZT060	57,00	15.5	70,700	4.8	42,000	17.0	50,900	5.4
ZT072	66,600	13.7	83,200	4.5	50,700	15.2	62,700	5.1

AHRI Performance Data

AHRI Performance Data								
Ground Loop Heat Pump								
Model	**Full Load Cooling**		**Full Load Heating**		**Part Load Cooling**		**Part Load Heating**	
	Btu/hr	**EER**	**Btu/hr**	**COP**	**Btu/hr**	**EER**	**Btu/hr**	**COP**
ZS006	6,300	16.6	4,675	3.3	-	-	-	-
ZS009	9,225	15.9	7,300	3.5	-	-	-	-
ZS012	11,350	14.0	9,500	3.2	-	-	-	-
ZS015	14,525	18.6	11,200	3.9	-	-	-	-
ZS017	17,300	17.0	12,825	3.6	-	-	-	-
ZS018	20,400	21.5	14,100	3.8	-	-	-	-
Ground Water Heat Pump								
Model	**Full Load Cooling**		**Full Load Heating**		**Part Load Cooling**		**Part Load Heating**	
	Btu/hr	**EER**	**Btu/hr**	**COP**	**Btu/hr**	**EER**	**Btu/hr**	**COP**
ZS006	6,900	22.9	6,300	4.3	-	-	-	-
ZS009	9,850	20.9	9,075	4.2	-	-	-	-
ZS012	12,400	18.7	11,750	3.7	-	-	-	-
ZS015	16,000	26.3	14,300	4.8	-	-	-	-
ZS017	18,475	22.2	15,950	4.3	-	-	-	-
ZS018	21,500	30.1	17,500	4.7	-	-	-	-
Water Loop Heat Pump								
Model	**Full Load Cooling**		**Full Load Heating**		**Part Load Cooling**		**Part Load Heating**	
	Btu/hr	**EER**	**Btu/hr**	**COP**	**Btu/hr**	**EER**	**Btu/hr**	**COP**
ZS006	6,000	14.2	7,800	5.2	-	-	-	-
ZS009	9,200	14.3	11,700	4.9	-	-	-	-
ZS012	11,000	12.5	14,125	4.3	-	-	-	-
ZS015	13,700	15.8	17,800	5.7	-	-	-	-
ZS017	17,000	15.6	20,600	5.3	-	-	-	-
ZS018	19,725	18.0	21,900	5.5	-	-	-	-

Unit Electrical Data : ZS006-012, PSC

Model	Voltage Code/ HWG Option	60 Hz Power		Compressor		Fan Motor FLA	HWG Pump FLA	Ext. Loop Pump FLA	Total Unit FLA	Min Circuit AMPS	Max Brkr HACR
		Volts	Phase	LRA	RLA						
ZS006	00	208/230	1	19.6/ 17.7	2.7/ 2.4	0.9/ 0.8	0.0	0.0	3.6/ 3.2	4.3/ 3.8	15/ 15
	10	208/230	1	19.6/17.7	2.7/ 2.4	0.9/ 0.8	0.0	4.4/ 4.0	8.0/ 7.2	8.7/ 7.8	15/ 15
	A0	265	1	13.5	2.0	0.7	0.0	0.0	2.7	3.2	15
	90	115	1	36.2	4.6	1.5	0.0	0.0	6.1	7.3	15
ZS009	00	208/230	1	24.5/ 22.2	3.5/ 3.2	0.9/ 0.8	0.0	0.0	4.4/ 4.0	5.3/ 4.8	15/ 15
	10	208/230	1	24.5/ 22.2	3.5/ 3.2	0.9/ 0.8	0.0	4.4/ 4.0	8.8/ 8.0	9.7/ 8.8	15/ 15
	A0	265	1	17.5	3.0	0.7	0.0	0.0	3.7	4.5	15
	90	115	1	45.6	6.9	1.5	0.0	0.0	8.4	10.1	15
ZS012	00	208/230	1	35.9/ 32.5	5.5/ 5.0	0.9/ 0.8	0.0	0.0	6.4/ 5.8	7.8/ 7.1	15/ 15
	10	208/230	1	35.9/ 32.5	5.5/ 5.0	0.9/ 0.8	0.0	4.4/ 4.0	10.8/ 9.8	12.2/ 11.1	15/ 15
	A0	265	1	31.5	3.8	0.7	0.0	0.0	4.5	5.5	15
	90	115	1	63.0	10.3	1.5	0.0	0.0	11.8	14.4	15

Notes:

1. All line and low voltage wiring must adhere to the National Electrical Code and local codes, whichever is the most stringent.
2. In determining the correct supply wire size and maximum length, reference NFPA 70, Section 310. If the calculation is close to the maximum allowable ampacity of a particular wire size, use the next size up. This will ensure that no adverse effects occur, such as light dimming and/or shortened compressor life.
3. Min/Max Voltage: 208/230/60 = 187-252, 265/60 = 249-291, 115 = 102-127
4. Units rated at 208/230V are factory wired for 230V. To change to 208V, the red transformer wire (with wire nut) will need to be hooked to the contactor in the position the current orange (230V) wire is. The orange wire will need to be capped off. Refer to wire diagram for details.

*The external loop pump FLA is based on a maximum of two UP26-116F-230V (1/2hp) for 006-012.

Unit Electrical Data : ZS015-018, ECM

Model	Voltage Code/ HWG Option	60 Hz Power		Compressor		Fan Motor FLA	HWG Pump FLA	Ext. Loop Pump FLA	Total Unit FLA	Min Circuit AMPS	Max Brkr HACR
		Volts	Phase	LRA	RLA						
ZS015	00	208/230	1	28.8/ 26.0	5.8/ 5.2	3.9/ 3.8	0.0	0.0	9.7/ 9.0	11.2/ 10.3	15/ 15
	01	208/230	1	28.8/ 26.0	5.8/ 5.2	3.9/ 3.8	0.6/ 0.5	0.0	10.3/ 9.5	11.8/ 10.8	15/ 15
	10	208/230	1	28.8/ 26.0	5.8/ 5.2	3.9/ 3.8	0.0	4.4/ 4.0	14.1/ 13.0	15.6/ 14.3	20/ 20
	11	208/230	1	28.8/ 26.0	5.8/ 5.2	3.9/ 3.8	0.6/ 0.5	4.4/ 4.0	14.7/ 13.5	16.2/ 14.8	20/ 20
	A	265	1	21.0	4.7	3.3	0.0	0.0	8.0	9.2	15
ZS017	00	208/230	1	37.6/ 34.0	7.4/ 6.7	3.9/ 3.8	0.0	0.0	11.3/ 10.5	13.2/ 12.2	20/ 15
	01	208/230	1	37.6/ 34.0	7.4/ 6.7	3.9/ 3.8	0.6/ 0.5	0.0	11.9/ 11.0	13.8/ 12.7	20/ 15
	10	208/230	1	37.6/ 34.0	7.4/ 6.7	3.9/ 3.8	0.0	4.4/ 4.0	15.7/ 14.5	17.6/ 16.2	25/ 20
	11	208/230	1	37.6/ 34.0	7.4/ 6.7	3.9/ 3.8	0.6/ 0.5	4.4/ 4.0	16.3/ 15.0	18.2/ 16.7	25/ 20
	A	265	1	28.0	5.3	3.3	0.0	0.0	8.6	9.9	15
ZS018	00	208/230	1	49.9/ 45.1	9.2/ 8.3	3.9/ 3.8	0.0	0.0	13.1/ 12.1	15.4/ 14.2	25/ 20
	01	208/230	1	49.9/ 45.1	9.2/ 8.3	3.9/ 3.8	0.6/ 0.5	0.0	13.7/ 12.6	16.0/ 14.7	25/ 20
	10	208/230	1	49.9/ 45.1	9.2/ 8.3	3.9/ 3.8	0.0	4.4/ 4.0	17.5/ 16.1	19.8/ 18.2	25/ 25
	11	208/230	1	49.9/ 45.1	9.2/ 8.3	3.9/ 3.8	0.6/ 0.5	4.4/ 4.0	18.1/ 16.6	20.4/ 18.7	30/ 25

Notes:

1. All line and low voltage wiring must adhere to the National Electrical Code and local codes, whichever is the most stringent.
2. In determining the correct supply wire size and maximum length, reference NFPA 70, Section 310. If the calculation is close to the maximum allowable ampacity of a particular wire size, use the next size up. This will ensure that no adverse effects occur, such as light dimming and/or shortened compressor life.
3. Min/Max Voltage: 208/230/60 = 187-252, 265/60 = 249-291
4. Units rated at 208/230V are factory wired for 230V. To change to 208V, the red transformer wire (with wire nut) will need to be hooked to the contactor in the position the current orange (230V) wire is. The orange wire will need to be capped off. Refer to wire diagram for details.

*The external loop pump FLA is based on a maximum of two UP26-116F-230V (1/2hp) for 015-018.

Unit Electrical Data : ZT024-048, ECM

Model	Voltage Code/ HWG Option	60 Hz Power		Compressor		Fan Motor FLA	HWG Pump FLA	Ext. Loop Pump FLA	Total Unit FLA	Min Circuit AMPS	Max Brkr HACR
		Volts	Phase	LRA	RLA						
ZT024	00	208/230	1	68.6/ 62.0	11.4/ 10.3	3.9/ 3.8	0.0	0.0	15.3/ 14.1	18.2/ 16.7	30/ 25
	01	208/230	1	68.6/ 62.0	11.4/ 10.3	3.9/ 3.8	0.6/ 0.5	0.0	15.9/ 14.6	18.8/ 17.2	30/ 25
	10	208/230	1	68.6/ 62.0	11.4/ 10.3	3.9/ 3.8	0.0	4.4/ 4.0	19.7/ 18.1	22.6/ 20.7	30/ 30
	11	208/230	1	68.6/ 62.0	11.4/ 10.3	3.9/ 3.8	0.6/ 0.5	4.4/ 4.0	20.3/ 18.6	23.2/ 21.2	35/ 30
	20	208/230	3	61.9/ 56.0	7.0/ 6.3	3.9/ 3.8	0.0	0.0	10.9/ 10.1	12.7/ 11.7	20/ 15
	21	208/230	3	61.9/ 56.0	7.0/ 6.3	3.9/ 3.8	0.6/ 0.5	0.0	11.5/ 10.6	13.3/ 12.2	20/ 15
	30/35	460	3	29.0	3.8	3.3	0.0	0.0	7.1	8.1	15
	A	265	1	52.0	7.8	3.3	0.0	0.0	11.1	13.1	20
ZT030	00	208/230	1	90.7/ 82.0	16.1/ 14.6	3.9/ 3.8	0.0	0.0	20.0/ 18.4	24.0 /22.1	40/ 35
	01	208/230	1	90.7/ 82.0	16.1/ 14.6	3.9/ 3.8	0.6/ 0.5	0.0	20.6/ 18.9	24.6/ 22.6	40/ 35
	10	208/230	1	90.7/ 82.0	16.1/ 14.6	3.9/ 3.8	0.0	4.4/ 4.0	24.4/ 22.4	28.4/ 26.1	45/ 40
	11	208/230	1	90.7/ 82.0	16.1/ 14.6	3.9/ 3.8	0.6/ 0.5	4.4/ 4.0	25.0/ 22.9	29.0/ 26.6	45/ 40
	20	208/230	3	73.0/ 66.0	8.7/ 7.9	3.9/ 3.8	0.0	0.0	12.6/ 11.7	14.8/ 13.7	20/ 20
	21	208/230	3	73.0/ 66.0	8.7/ 7.9	3.9/ 3.8	0.6/ 0.5	0.0	13.2/ 12.2	15.4/ 14.2	20/ 20
	30/35	460	3	39.0	4.8	3.3	0.0	0.0	8.1	9.3	15
	A	265	1	72.0	8.3	3.3	0.0	0.0	11.6	13.7	20
ZT036	00	208/230	1	99.5/ 90.0	16.1/ 14.6	3.9/ 3.8	0.0	0.0	20.0/ 18.4	24.0/ 22.1	40/ 35
	01	208/230	1	99.5/ 90.0	16.1/ 14.6	3.9/ 3.8	0.6/ 0.5	0.0	20.6/ 18.9	24.6/ 22.6	40/ 35
	10	208/230	1	99.5/ 90.0	16.1/ 14.6	3.9/ 3.8	0.0	4.4/ 4.0	24.4/ 22.4	28.4/ 26.1	45/ 40
	11	208/230	1	99.5/ 90.0	16.1/ 14.6	3.9/ 3.8	0.6/ 0.5	4.4/ 4.0	25.0/ 22.9	29.0/ 26.6	45/ 40
	20	208/230	3	90.7/ 82.0	10.9/ 9.9	3.9/ 3.8	0.0	0.0	14.8/ 13.7	17.5/ 16.2	25/ 25
	21	208/230	3	90.7/ 82.0	10.9/ 9.9	3.9/ 3.8	0.6/ 0.5	0.0	15.4/ 14.2	18.1/ 16.7	25/ 25
	30/35	460	3	44.3	4.8	3.3	0.0	0.0	8.1	9.3	15
	A	265	1	79.0	12.5	3.3	0.0	0.0	15.8	18.9	30
ZT042	00	208/230	1	117.2/ 106.0	20.1/ 18.2	5.9/ 5.5	0.0	0.0	26.0/ 23.7	31.0/ 28.3	50/ 45
	01	208/230	1	117.2/ 106.0	20.1/ 18.2	5.9/ 5.5	0.6/ 0.5	0.0	26.6/ 24.2	31.6/ 28.8	50/ 45
	10	208/230	1	117.2/ 106.0	20.1/ 18.2	5.9/ 5.5	0.0	6.1/ 5.5	32.1/ 29.2	37.1/ 33.8	50/ 50
	11	208/230	1	117.2/ 106.0	20.1/ 18.2	5.9/ 5.5	0.6/ 0.5	6.1/ 5.5	32.7/ 29.7	37.7/ 34.3	50/ 50
	20	208/230	3	126.1/ 114.0	12.7/ 11.5	5.9/ 5.5	0.0	0.0	18.6/ 17.0	21.8/ 19.9	30/ 30
	21	208/230	3	126.1/ 114.0	12.7/ 11.5	5.9/ 5.5	0.6/ 0.5	0.0	19.2/ 17.5	22.4/ 20.4	35/ 30
	30/35	460	3	56.0	6.5	4.8	0.0	0.0	11.3	12.9	15
ZT048	00	208/230	1	152.6/ 138.0	20.2/ 18.3	5.9/ 5.5	0.0	0.0	26.1/ 23.8	31.2/ 28.4	50/ 45
	01	208/230	1	152.6/ 138.0	20.2/ 18.3	5.9/ 5.5	0.6/ 0.5	0.0	26.7/ 24.3	31.8/ 28.9	50/ 45
	10	208/230	1	152.6/ 138.0	20.2/ 18.3	5.9/ 5.5	0.0	6.1/ 5.5	32.2/ 29.3	37.3/ 33.9	50/ 50
	11	208/230	1	152.6/ 138.0	20.2/ 18.3	5.9/ 5.5	0.6/ 0.5	6.1/ 5.5	32.8/ 29.8	37.9/ 34.4	50/ 50
	20	208/230	3	123.8/ 112.0	13.2/ 11.9	5.9/ 5.5	0.0	0.0	19.1/ 17.4	22.4/ 20.4	35/ 30
	21	208/230	3	123.8/ 112.0	13.2/ 11.9	5.9/ 5.5	0.6/ 0.5	0.0	19.7/ 17.9	23.0/ 20.9	35/ 30
	30/35	460	3	61.8	6.8	4.8	0.0	0.0	11.6	13.3	20

Notes:

1. All line and low voltage wiring must adhere to the National Electrical Code and local codes, whichever is the most stringent.
2. In determining the correct supply wire size and maximum length, reference NFPA 70, Section 310. If the calculation is close to the maximum allowable ampacity of a particular wire size, use the next size up. This will ensure that no adverse effects occur, such as light dimming and/or shortened compressor life.
3. Min/Max Voltage: 208/230/60 = 187-252, 460/60 = 432-502, 265/60 = 249-291
4. Units rated at 208/230V are factory wired for 230V. To change to 208V, the red transformer wire (with wire nut) will need to be hooked to the contactor in the position the current orange (230V) wire is. The orange wire will need to be capped off. Refer to wire diagram for details.
5. See Wiring Diagrams for proper 460V power.

*The external loop pump FLA is based on a maximum of three UP26-116F-230V pumps (1/2hp) for 042-072 and two pumps for 024-036.

Unit Electrical Data : ZT060-072, ECM

Model	Voltage Code/ HWG Option	60 Hz Power		Compressor		Fan Motor FLA	HWG Pump FLA	Ext. Loop Pump FLA	Total Unit FLA	Min Circuit AMPS	Max Brkr HACR
		Volts	Phase	LRA	RLA						
ZT060	00	208/230	1	162.9/ 147.3	27.9/ 25.2	7.4/ 6.9	0.0	0.0	35.3/ 32.1	42.3/ 38.4	70/ 60
	01	208/230	1	162.9/ 147.3	27.9/ 25.2	7.4/ 6.9	0.6/ 0.5	0.0	35.9/ 32.6	42.9/ 38.9	70/ 60
	10	208/230	1	162.9/ 147.3	27.9/ 25.2	7.4/ 6.9	0.0	6.1/ 5.5	41.4/ 37.6	48.4/ 43.9	70/ 60
	11	208/230	1	162.9/ 147.3	27.9/ 25.2	7.4/ 6.9	0.6/ 0.5	6.1/ 5.5	42.0/ 38.1	49.0/ 44.4	70/ 70
	20	208/230	3	165.9/ 150.0	15.3/ 13.8	7.4/ 6.9	0.0	0.0	22.7/ 20.7	26.5/ 24.2	40/ 35
	21	208/230	3	165.9/ 150.0	15.3/ 13.8	7.4/ 6.9	0.6/ 0.5	0.0	23.3/ 21.2	27.1/ 24.7	40/ 35
	30/35	460	3	58.0	6.9	6.0	0.0	0.0	12.9	14.6	20
	A	265	1	133.0	21.5	6.0	0.0	0.0	27.5	32.9	50
ZT072	00	208/230	1	183.6/ 166.0	31.0/ 28.0	7.4/ 6.9	0.0	0.0	38.4/ 34.9	46.2/ 41.9	70/ 70
	01	208/230	1	183.6/ 166.0	31.0/ 28.0	7.4/ 6.9	0.6/ 0.5	0.0	39.0/ 35.4	46.8/ 42.4	70/ 70
	10	208/230	1	183.6/ 166.0	31.0/ 28.0	7.4/ 6.9	0.0	6.1/ 5.5	44.5/ 40.4	52.3/ 47.4	80/ 70
	11	208/230	1	183.6/ 166.0	31.0/ 28.0	7.4/ 6.9	0.6/ 0.5	6.1/ 5.5	45.1/ 40.9	52.9/ 47.9	80/ 70
	20	208/230	3	179.5/ 162.3	21.2/ 19.2	7.4/ 6.9	0.0	0.0	28.6/ 26.1	33.9/ 30.9	50/ 50
	21	208/230	3	179.5/ 162.3	21.2/ 19.2	7.4/ 6.9	0.6/ 0.5	0.0	29.2/ 26.6	34.5/ 31.4	50/ 50
	30/35	460	3	70.8	9.1	6.0	0.0	0.0	15.1	17.4	25

Notes:

1. All line and low voltage wiring must adhere to the National Electrical Code and local codes, whichever is the most stringent.
2. In determining the correct supply wire size and maximum length, reference NFPA 70, Section 310. If the calculation is close to the maximum allowable ampacity of a particular wire size, use the next size up. This will ensure that no adverse effects occur, such as light dimming and/or shortened compressor life.
3. Min/Max Voltage: 208/230/60 = 187-252, 460/60 = 432-502, 265/60 = 249-291
4. Units rated at 208/230V are factory wired for 230V. To change to 208V, the red transformer wire (with wire nut) will need to be hooked to the contactor in the position the current orange (230V) wire is. The orange wire will need to be capped off. Refer to wire diagram for details.
5. See Wiring Diagrams for proper 460V power.

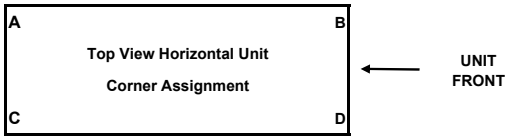
*The external loop pump FLA is based on a maximum of three UP26-116F-230V pumps (1/2hp) for 042-072 and two pumps for 024-036.

Unit Physical Data

ZS-ZT Unit Physical Data

ZS/ZT Unit Physical Data (COAX Units only)

UNIT WEIGHTS ZS-ZT MODELS	BTU SIZES - COAX UNITS ONLY												
	006	009	012	015	017	018	024	030	036	042	048	060	072
Unit Weight (lbs)	140	140	140	175	175	246	246	255	278	292	306	342	344
Tare Weight (lbs)	32	32	32	32	32	37	37	37	37	37	37	37	37
Shipped Unit Weight (lbs)	172	172	172	207	207	283	283	292	315	329	343	379	381
Left Return Corner A (Unit Wt.)	28	28	28	35	35	49	49	51	55	58	61	67	67
Left Return Corner B (Unit Wt.)	49	49	49	62	62	90	90	92	102	106	110	130	130
Left Return Corner C (Unit Wt.)	21	21	21	26	26	35	35	37	39	42	44	46	46
Left Return Corner D (Unit Wt.)	42	42	42	52	52	72	72	75	82	86	91	99	101
Right Return Corner A (Unit Wt.)	21	21	21	26	26	35	35	337	39	42	44	46	46
Right Return Corner B (Unit Wt.)	42	42	42	52	52	72	72	75	82	86	91	99	101
Right Return Corner C (Unit Wt.)	28	28	28	35	35	49	49	51	55	58	61	67	67
Right Return Corner D (Unit Wt.)	49	49	49	62	62	90	90	92	102	106	110	130	130



SINGLE CAPACITY ZS MODELS	BTU SIZES - COAX UNITS ONLY					
	006	009	012	015	017	018
Compressor Type	Rotary					Scroll
Blower/Fan Wheel (in)	6 X 9	6 X 9	6 X 9	9 x 7T	9 x 7T	10 x 8T
Fan Motor ECM (HP)	N/A	N/A	N/A	1/2 hp	1/2 hp	1/2 hp
Fan Motor PSC (HP)	1/16 hp	1/16 hp	1/16 hp	N/A	N/A	N/A
Source Water Connection Size	3/4" FPT					1" FPT
HWG Water (when available)	N/A			3/4" FPT		
R-454B Refrigerant Charge (oz)*	30	32	30	33	35	42
Air Coil Face Area (sq.ft.)	1.08 sq.ft.			1.79 sq.ft.		3.26 sq.ft.
Air Coil Dimesions (in)	20.5x7.6x1.26			20.5x12.6x1.26		30.3x15.5 x1
Air Coil Type	All Aluminum Microchannel Coil					

*** Always check the unit data plate for specific refrigerant charge volume**

DUAL CAPACITY ZT MODELS	BTU SIZES - COAX UNITS ONLY						
	024	030	036	042	048	060	072
Compressor Type	Dual Capacity Scroll						
Blower/Fan Wheel (in)	10 x 8T	10 x 8T	10 x 8	10 x 8	10 x 8	11 x 10T	11 x 10T
Fan Motor ECM (HP)	1/2 hp	1/2 hp	1/2 hp	1/2 hp	3/4 hp	1 hp	1 hp
Source Water Connection Size	1" FPT						
HWG Water (when available)	3/4" FPT						
R-454B Refrigerant Charge (oz)*	44	41	56	56	56	62	62
Air Coil Face Area (sq.ft.)	3.26 sq.ft.		4.17 sq.ft.			4.76 sq.ft.	
Air Coil Dimesions (in)	30.3 x 15.5 x 1		34.5 x 17.4 x 1			39.4 x 17.4 x 1	
Air Coil Type	All Aluminum Microchannel Coil						

*** Always check the unit data plate for specific refrigerant charge volume**

Unit Dimensional Data : Data Sheet

MODEL	Overall Cabinet Size			Supply Air (Side Blower Discharge)						
	A (Width)	B (Depth)	C (Height)	D (Width)	E (Height)	F (LHR)	G (LHR)	F1 (RHR)	G1 (RHR)	H
006	20.0	40.0	12.0	11.6	7.5	1.6	2.9	2.9	1.6	3.8
009	20.0	40.0	12.0	11.6	7.5	1.6	2.9	2.9	1.6	3.8
012	20.0	40.0	12.0	11.6	7.5	1.6	2.9	2.9	1.6	3.8
015	21.0	40.0	17.0	11.6	12.5	1.4	3.1	3.1	1.4	3.8
017	21.0	40.0	17.0	11.6	12.5	1.4	3.1	3.1	1.4	3.8
018	21.7	52.0	19.2	11.6	12.5	1.4	5.3	5.3	1.4	4.7
024	21.7	52.0	19.2	11.6	12.5	1.4	5.3	5.3	1.4	4.7
030	21.7	52.0	19.2	11.6	12.5	1.4	5.3	5.3	1.4	4.7
036	21.7	56.0	21.2	11.6	12.5	1.4	7.3	7.3	1.4	7.2
042	21.7	56.0	21.2	11.6	12.5	1.4	7.3	7.3	1.4	7.2
048	21.7	56.0	21.2	11.6	12.5	1.4	7.3	7.3	1.4	7.2
060	24.0	61.0	21.2	16.0	16.0	1.4	3.8	3.8	1.4	6.7
072	24.0	61.0	21.2	16.0	16.0	1.4	3.8	3.8	1.4	6.7

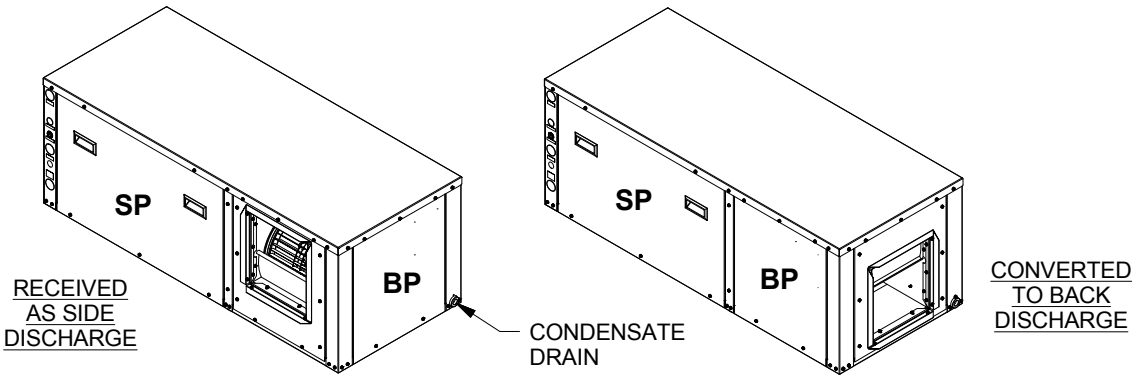
MODEL	Source Water			Hot Water (If Applicable)		
	P	R	S	T	V	W
006	3.6	6.0	2.1	N/A	N/A	N/A
009	3.6	6.0	2.1	N/A	N/A	N/A
012	3.6	6.0	2.1	N/A	N/A	N/A
015	5.6	8.0	2.1	8.6	4.0	2.1
017	5.6	8.0	2.1	8.6	4.0	2.1
018	5.6	10.7	2.3	11.1	4.0	2.3
024	5.6	10.7	2.3	11.1	4.0	2.3
030	5.6	10.7	2.3	11.1	4.0	2.3
036	5.6	12.0	2.5	11.1	4.0	2.3
042	5.6	12.0	2.5	11.1	4.0	2.3
048	5.6	12.0	2.5	11.1	4.0	2.3
060	5.6	12.0	2.5	11.1	4.0	2.3
072	5.6	12.0	2.5	11.1	4.0	2.3

MODEL	1"-2" Optional Deluxe Filter Rack
	Order Item Number
006	AFR0923A
009	AFR0923A
012	AFR0923A
015	AFR1423A
017	AFR1423A
018	AFR1632A
024	AFR1632A
030	AFR1632A
036	AFR1836A
042	AFR1836A
048	AFR1836A
060	AFR1841A
072	AFR1841A

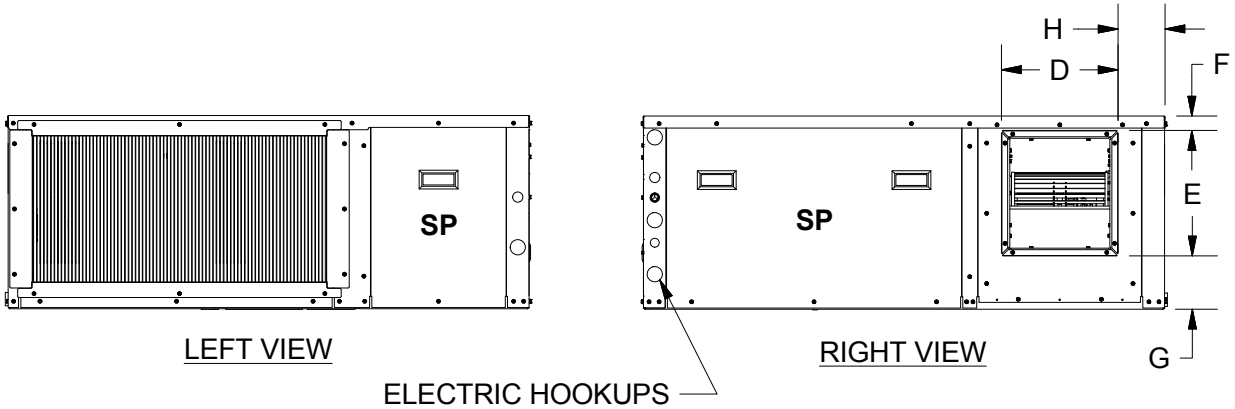
Note:

1. For Return Flange / Filter Rack Dimensional Data see additional sheet.
2. Residential Models are shipped with factory applied Return Duct Flanges.
3. Commercial Models are shipped with either a factory applied 1" Commercial Filter Rack or Return Duct Flanges.

Unit Dimensional Data : Left Hand Return

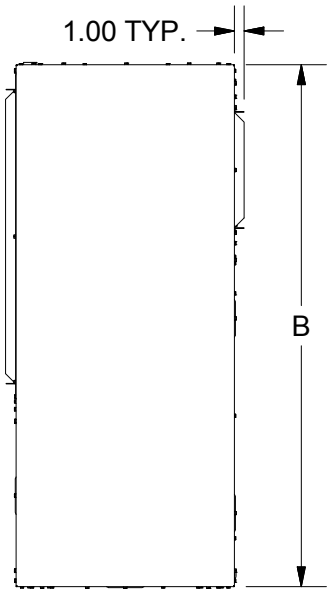


BACK ISOMETRIC VIEW

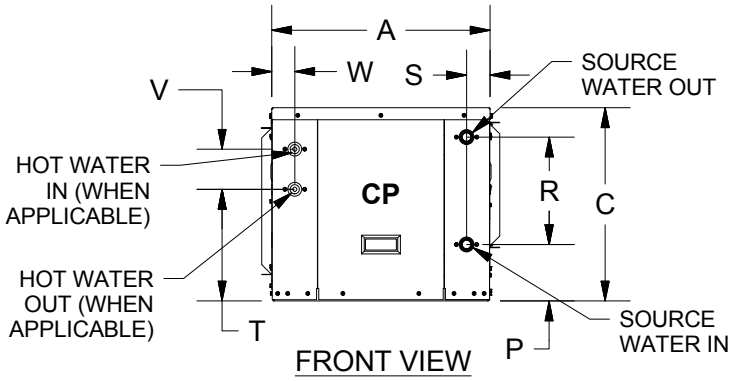


LEFT VIEW

RIGHT VIEW



TOP VIEW



FRONT VIEW

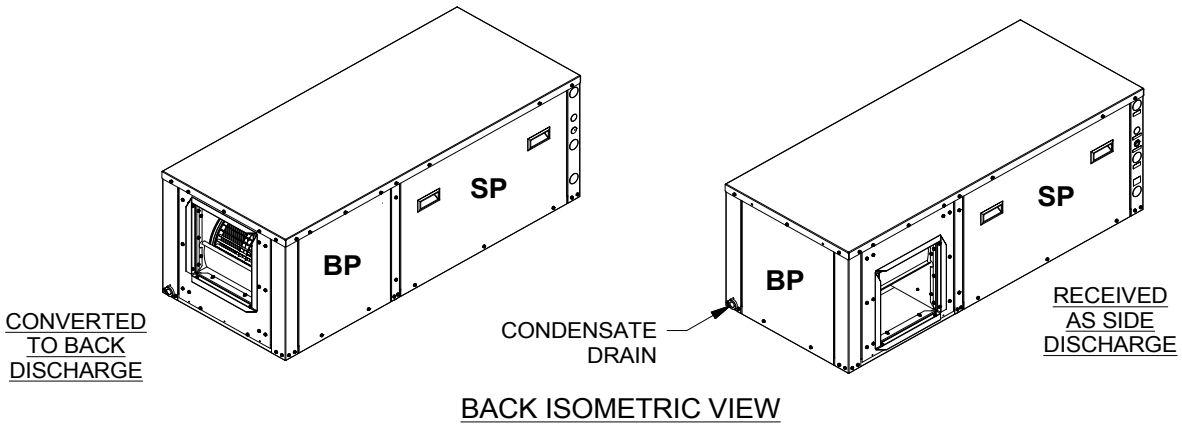
SHOWN IN LEFT HAND RETURN CONFIGURATION

LEGEND
SP = Service Panel
BP = Blower Service Panel
CP = Control Access Panel

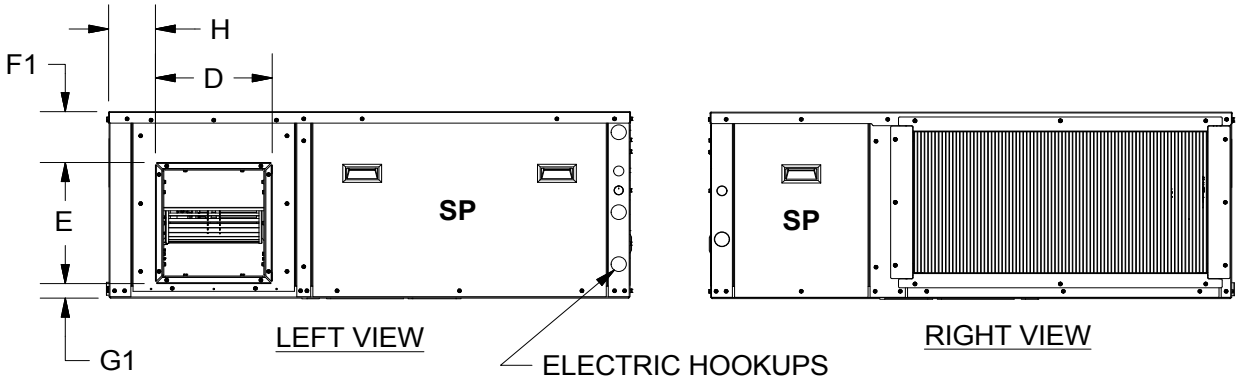
Reference dimensional data enclosed.
Units utilize FPT source water connections.
Units with Desuperheater utilize FPT connections.
Electrical knockouts are sized to 1/2" or 3/4" conduit.
All views are shown with flanges for reference.
Return duct flanges or 1" commercial filter rack are factory installed. See separate dimensional data sheet for further detail.

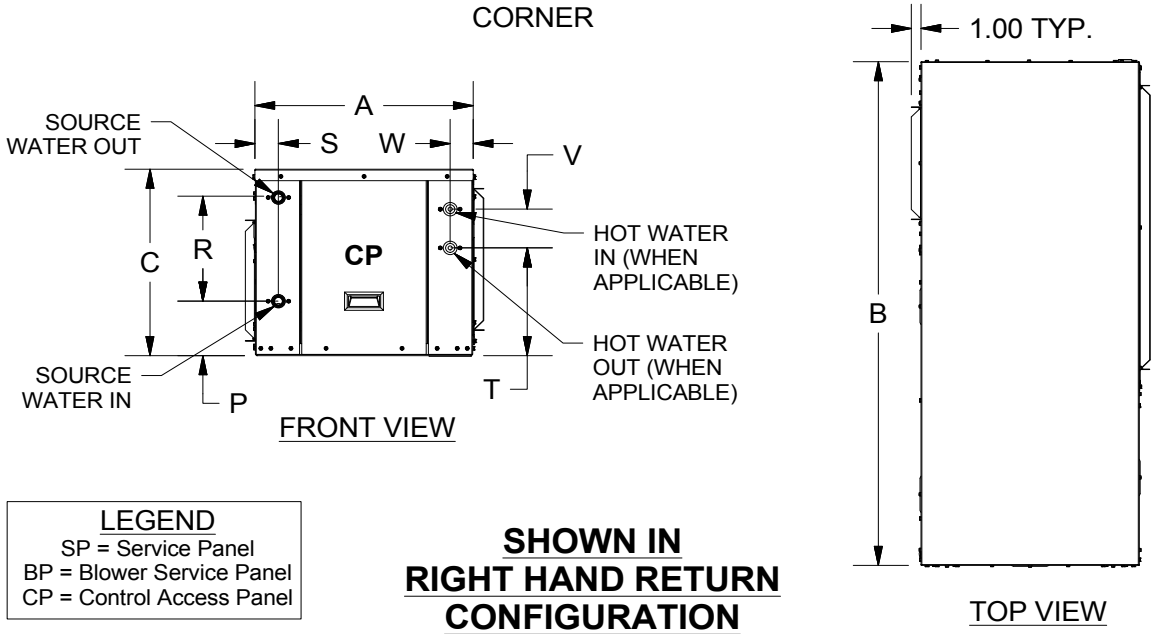
All measurements are in inches.
Drawings are typical, individual models may vary.
Optional filter rack kits are available as needed. See separate dinmensional data sheet for details.
Discharge flanges are field installed and are shipped inside of the unit.

Unit Dimensional Data : Right Hand Return



BACK ISOMETRIC VIEW





LEGEND
SP = Service Panel
BP = Blower Service Panel
CP = Control Access Panel

SHOWN IN RIGHT HAND RETURN CONFIGURATION

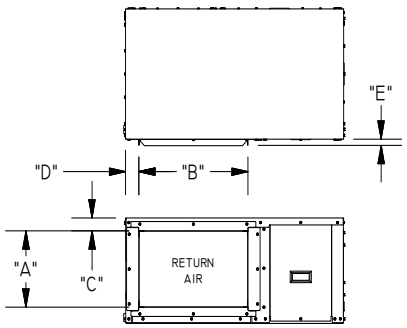
Reference dimensional data enclosed.
Units utilize FPT source water connections.
Units with Desuperheater utilize FPT connections.
Electrical knockouts are sized to 1/2" or 3/4" conduit.
All views are shown with flanges for reference.
Return duct flanges or 1" commercial filter rack are factory installed. See separate dimensional data sheet for further detail.

All measurements are in inches.
Drawings are typical, individual models may vary.
Optional filter rack kits are available as needed. See separate dinmensional data sheet for details.
Discharge flanges are field installed and are shipped inside of the unit.

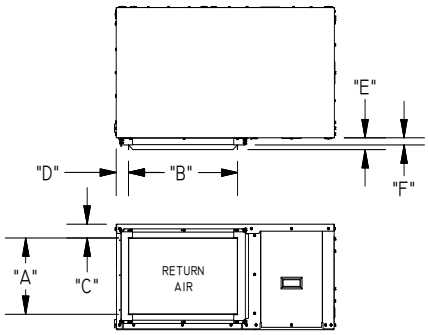
Unit Dimensional Data : Return Flange / Filter Rack

LEFT HAND RETURN MODELS

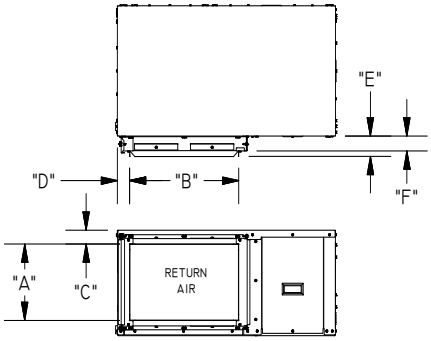
WITH RETURN FLANGES



WITH 1" COMMERCIAL FILTER RACK

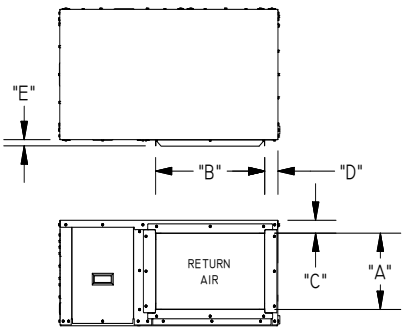


WITH 1"-2" DELUXE FILTER RACK

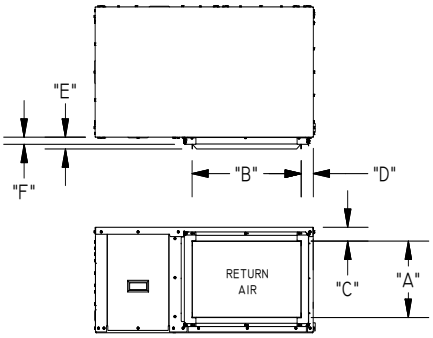


RIGHT HAND RETURN MODELS

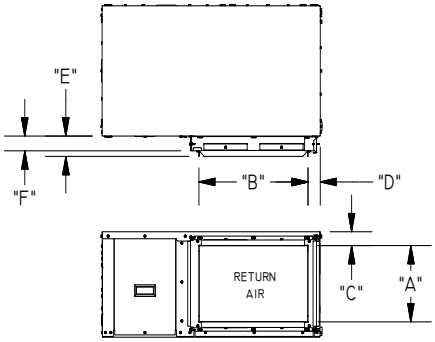
WITH RETURN FLANGES



WITH 1" COMMERCIAL FILTER RACK

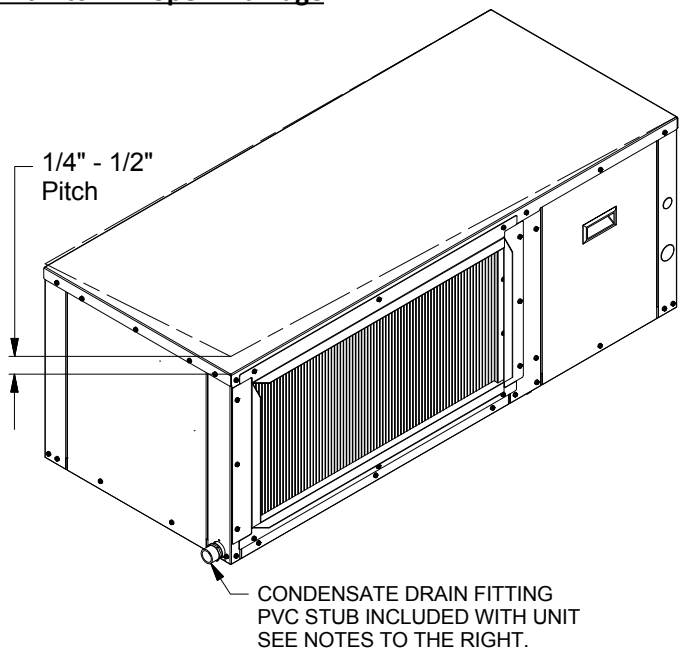


WITH 1"-2" DELUXE FILTER RACK

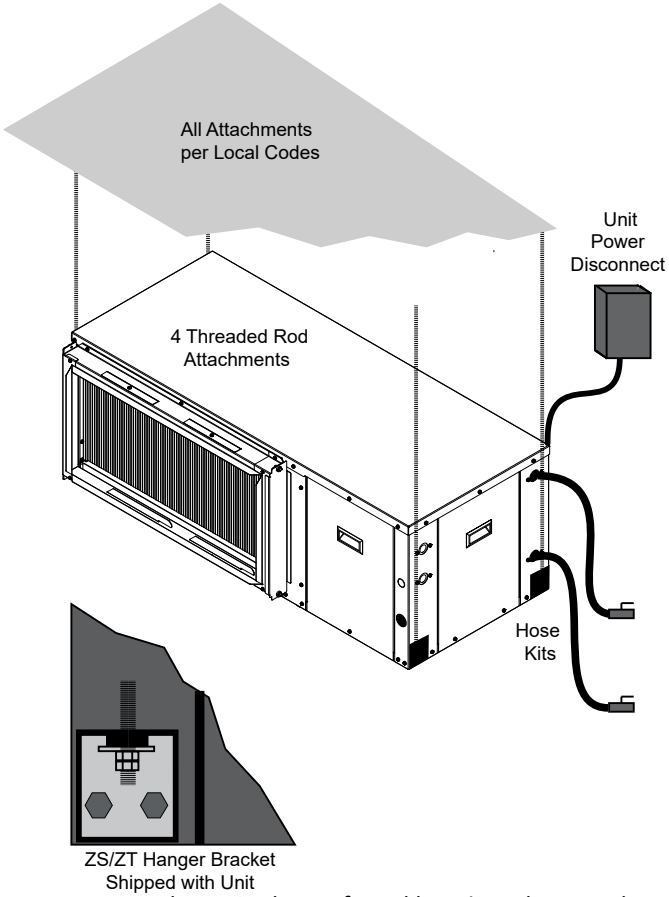


UNIT	DESCRIPTION	"A" HEIGHT	"B" WIDTH	"C"	"D'	"E"	"F"
006-009-012	RETURN DUCT FLANGES	7.31	20.00	2.06	2.44	1.00	N/A
	1" COMMERCIAL RACK	7.31	20.00	2.22	2.24	1.89	1.14
	1"-2" DELUXE RACK	7.31	20.00	2.22	2.24	3.30	2.39
015-017	RETURN DUCT FLANGES	12.31	20.00	2.06	2.44	1.00	N/A
	1" COMMERCIAL RACK	12.31	20.00	2.22	2.24	1.89	1.14
	1"-2" DELUXE RACK	12.31	20.00	2.22	2.24	3.30	2.39
018-024-030	RETURN DUCT FLANGES	14.64	29.35	1.99	2.44	1.00	N/A
	1" COMMERCIAL RACK	14.64	29.35	1.99	2.15	1.89	1.14
	1"-2" DELUXE RACK	14.64	29.35	1.99	2.44	3.30	2.39
036-048	RETURN DUCT FLANGES	16.64	33.35	1.99	2.44	1.00	N/A
	1" COMMERCIAL RACK	16.64	33.35	1.99	2.15	1.89	1.14
	1"-2" DELUXE RACK	16.64	33.35	1.99	2.44	3.30	2.39
060-072	RETURN DUCT FLANGES	16.64	38.25	1.99	2.44	1.00	N/A
	1" COMMERCIAL RACK	16.64	38.25	1.99	2.15	1.89	1.14
	1"-2" DELUXE RACK	16.64	38.25	1.99	2.44	3.30	2.39

Unit Pitch - Proper Drainage



Unit Suspension

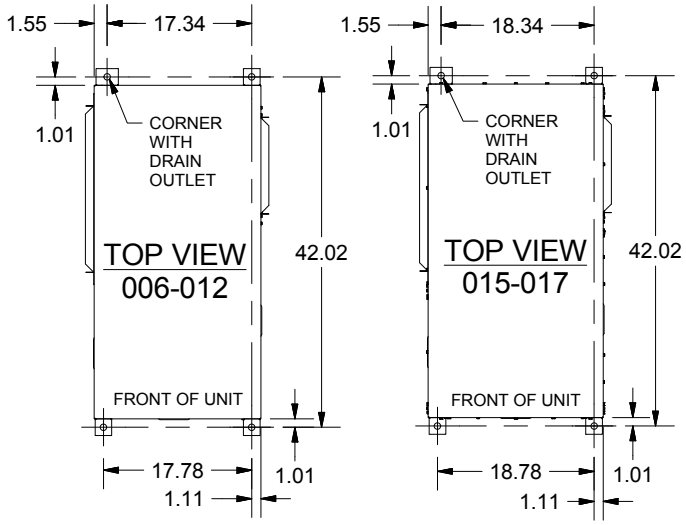


Note: Hanger shown in the preferred locations, but may be assembled to side of the unit as necessary.

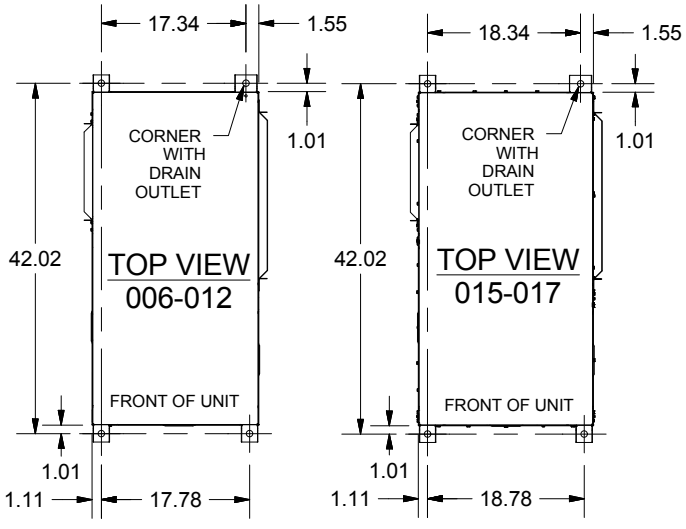
Condensate Drain Notes:

- Unit **MUST** pitch towards the condensate drain for proper drainage.
- Confirm that condensate drains properly from unit and that the amount of pitch does not cause condensate leaks inside of the unit.
- Units are equipped with overflow protection.
- Be sure to leave adequate height for the P-Trap in applications where clearance could be an issue.
- In some high humidity applications you may need to apply insulative tape around condensate drain fitting.

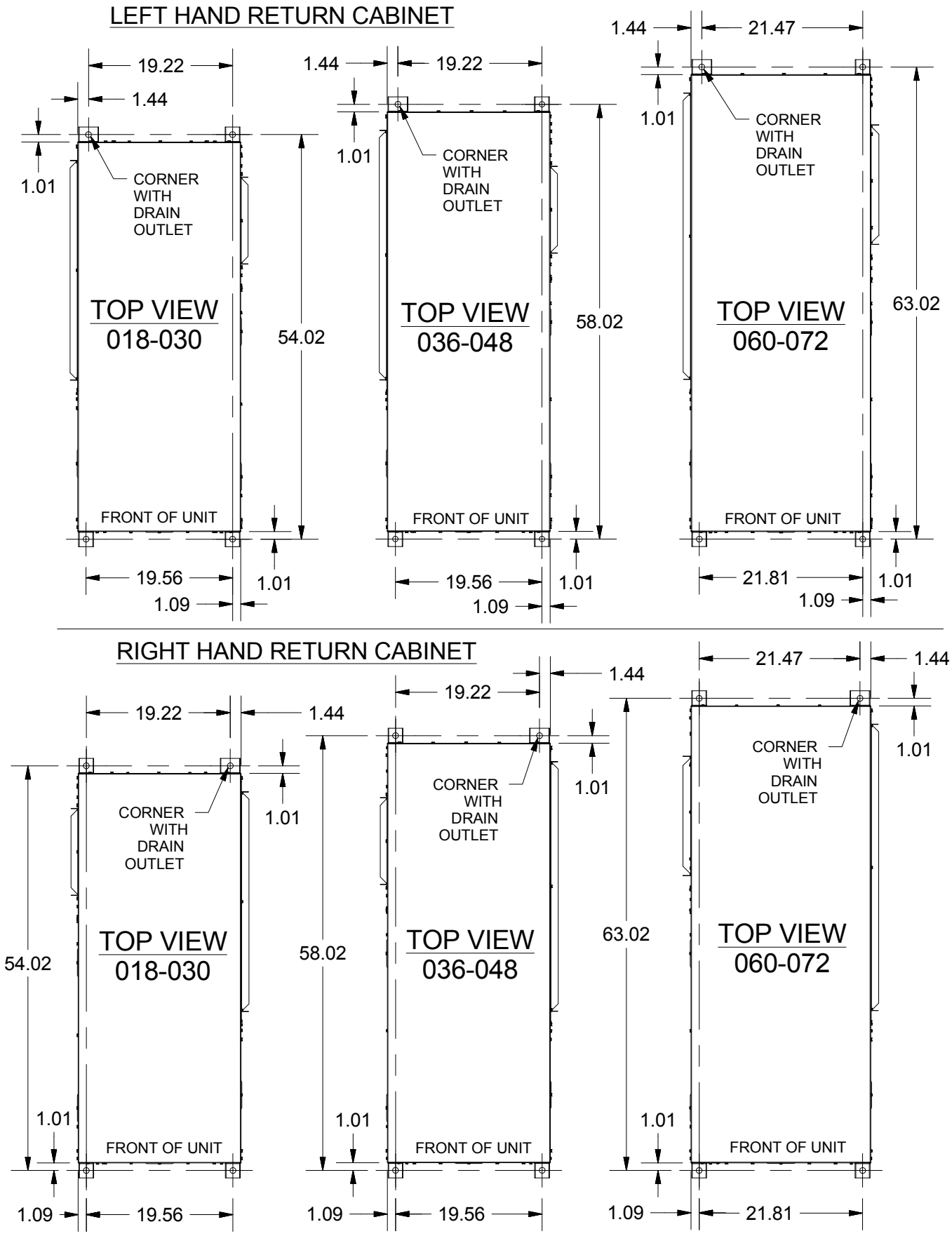
LEFT HAND RETURN CABINET



RIGHT HAND RETURN CABINET

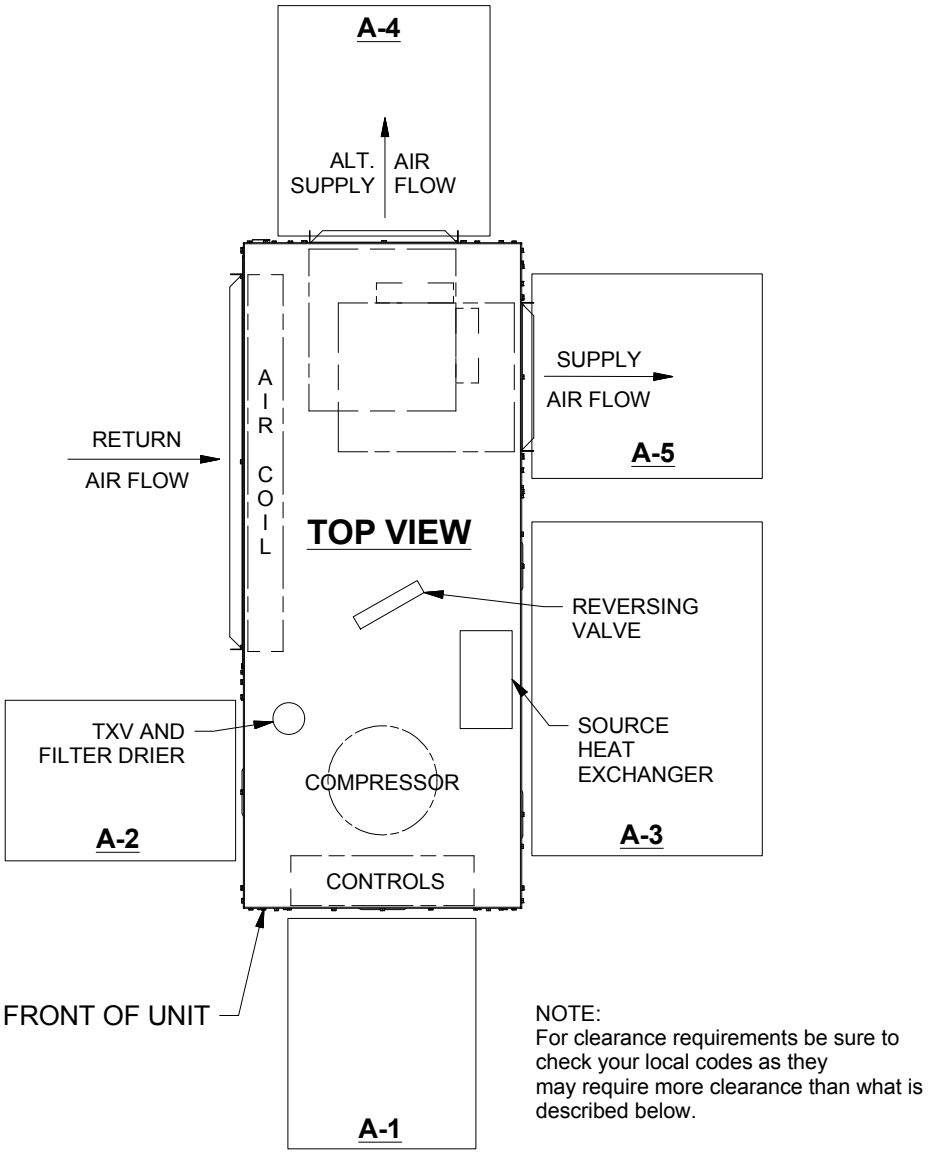


Unit Suspension



Note: Hanger shown in the preferred locations, but may be assembled to side of the unit as necessary.

Unit Service Access Clearance



NOTE:
For clearance requirements be sure to check your local codes as they may require more clearance than what is described below.

LEGEND:

A-1: This is the main controls and compressor access panel. Requires 2 feet of clearance.

A-2: This is the txv-filter drier access area. Be sure to leave adequate clearance for any future maintenance if needed.

A-3: This is the source heat exchanger reversing valve access area. Be sure to leave adequate clearance for any future maintenance if needed.

A-4: This is the blower motor access when the unit is configured as side discharge. This is the configutation that the unit is shipped in. When side discharge then this access area requires 2 feet of clearance.

ONLY FOR ALT. SUPPLY AIR

A-5: This is the blower motor access when the unit is configured as back discharge. When back discharge then this access area requires 2 feet of clearance.

PSC Fan Performance Data

*ZS Series PSC Fan Performance Data														
Model	Motor Speed[1]	Blower Size	Motor HP	CFM Nominal	Static Pressure (inches w.c.)											
					0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.60	0.70	0.80
006/009/012	H	6 x 9	1/16	350 (009/012[2])	410	400	395	380	370	360	340	320	290			
	M/H				375	370	360	355	340	325	310	295	275			
	M/L			275 (006)	330	320	310	300	290	280	260	240	210			
	L				285	275	265	250	240	230	210	195	180			

Notes:

1. PSC Blower motors come with 3 or 4 speed taps. To change the speed of the motor to a higher or lower speed, remove the electric box cover that is mounted on the blower. Locate the label on the motor to identify the wire color for each speed. Remove the wire nut on the existing speed and replace with the wire of selected speed.

2. Running the ZS012 at the static/SCFM points highlighted in gray, is not recommended.

ECM Fan Performance Data

***ZS/*ZT Series ECM Fan Performance Data: One & Two-Stage Compressor Units**

Model	Max ESP in. w.c.[2]	Program[3]	Heating Mode		Cooling Mode		Dehumidification Mode		Fan Only	AUX/ EMG Heat[4]	DIP Switch Settings							
			1st	2nd	1st	2nd	1st	2nd			S1	S2	S3	S4	S5	S6	S7	S8
015	1.0	A	-	620	-	620	-	490	295	N/A	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		B	**-**	**500**	**-**	**500**	**-**	**430**	**260**		**ON**	**OFF**	**OFF**	**OFF**	**ON**	**OFF**	**OFF**	**OFF**
		C	-	430	-	430	-		230		OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
		D	-	360	-	370	-		200		ON	ON	OFF	OFF	ON	ON	OFF	OFF
017	1.0	A	-	670	-	690	-	600	355	N/A	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
		B	**-**	**620**	**-**	**620**	**-**	**490**	**295**		**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
		C	-	500	-	500	-		260		ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
		D	-	430	-	430	-		230		OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
018	1.0	A	-	680	-	680	-	580	370	990	OFF	ON	ON	OFF	OFF	ON	OFF	OFF
		B	**-**	**630**	**-**	**630**	**-**	**520**	**340**	**900**	**OFF**	**ON**	**OFF**	**OFF**	**OFF**	**ON**	**OFF**	**OFF**
		C	-	560	-	570	-	480	290	800	ON	ON	ON	OFF	ON	ON	OFF	OFF
		D	-	500	-	510	-	430	260	720	ON	ON	OFF	OFF	ON	ON	OFF	OFF
024	1.1	A	700	930	740	930	610	800	500	1210	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
		B	**650**	**850**	**650**	**860**	**570**	**740**	**460**	**1100**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
		C	600	780	620	780	520	690	400	990	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
		D	560	730	570	730	480	640	390	920	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
030	1.1	A	920	1240	820	1060	730	960	610	1230	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		B	**840**	**1070**	**750**	**960**	**660**	**870**	**570**	**1130**	**OFF**	**OFF**	**OFF**	**ON**	**OFF**	**OFF**	**OFF**	**OFF**
		C	770	1050	680	830	610	780	480	1050	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
		D	720	960	630	740			430	950	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
036	0.9	A	1080	1380	990	1390	880	1190	850	1490	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		B	**980**	**1230**	**910**	**1260**	**870**	**1090**	**760**	**1450**	**ON**	**OFF**	**OFF**	**OFF**	**ON**	**OFF**	**OFF**	**OFF**
		C	870	1090	840	1100	830	960	670	1420	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
		D	840	1020	820	960			550	1380	ON	ON	OFF	OFF	ON	ON	OFF	OFF
042	1.1	A	1120	1430	1330	1570	970	1290	740	1580	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
		B	**1010**	**1270**	**1200**	**1410**	**870**	**1150**	**660**	**1430**	**ON**	**OFF**	**OFF**	**ON**	**ON**	**OFF**	**OFF**	**OFF**
		C	910	1140	1090	1270	810	1050	560	1250	ON	ON	OFF	OFF	ON	ON	OFF	OFF
		D	820	1030	1000	1130			470	1130	ON	ON	OFF	ON	ON	ON	OFF	OFF
048	1.1	A	1490	1900	1660	1880	1150	1550	890	1950	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		B	**1230**	**1580**	**1510**	**1710**	**1050**	**1420**	**810**	**1760**	**ON**	**OFF**	**ON**	**OFF**	**ON**	**OFF**	**OFF**	**OFF**
		C	1120	1420	1390	1580	950	1280	730	1600	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
		D	1000	1260	1270	1420			650	1400	ON	ON	ON	OFF	ON	ON	OFF	OFF
060	1.1	A	1810	2290	1660	2090	1390	1750	1010	2410	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
		B	**1560**	**2000**	**1500**	**1900**	**1260**	**1590**	**910**	**2220**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
		C	1470	1870	1390	1730			810	2000	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
		D	1420	1790	1310	1650			770	1990	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
072	1.1	A	N/A															
		B	**1900**	**2200**	**1820**	**2230**	**1530**	**1870**	**1110**	**2430**	**OFF**	**OFF**	**ON**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
		C	1760	2030	1650	2000			1020	2180	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		D	1590	1840	1480	1810			910	1960	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF

Notes:

1. Program **B (Bold Type)** is factory settings and rated CFM. CFM is controlled within 5% up to the Max ESP.
2. Max ESP includes allowance for wet coil and NO FILTER
3. Power must be off to the unit for at least 3 seconds before the ECM motor will recognize a program change.
4. Max ESP for ZS018 through ZS/ZT036 models with external electric heat is 0.8 in. w.c.; for ZS/ZT048 models it is 0.9 in. w.c.; and for ZS/ZT060 and ZS/ZT072 it is 1.1 in. w.c. Exceeding the Max ESP may result in nuisance trips of the electric heat. Thermal limits are rated at 100,000 cycles.
5. *ZT030 models with external electric heat cannot be set on the 'D' program.

***ZS/*ZT Series Dehumidification Mode Options**

DIP Switch		Mode	Operation
S9	S10		
ON	OFF	Normal	Dehumidification mode disabled (Normal Htg/Clg CFM)-- Factory setting.
OFF	ON	ODD	On Demand Dehumidification mode (humidistat input at terminal ODD)-- Humidistat required.
OFF	OFF	Constant Dehum	Constant Dehumidification mode (always uses dehum CFM for cooling and normal CFM for heating)--No humidistat required.
ON	ON	Not Used	Not an applicable selection.

Notes:

1. To enter dehumidification mode, ODD input should be 0 VAC; for normal cooling CFM, ODD input should be 24 VAC.
2. Heating CFM is not affected by dehumidification mode. When in dehumidification mode, cooling CFM is 85% of normal CFM.

Filter Performance

The blower performance data in the ECM Blower Performance table is WITHOUT FILTER. To determine the approximate blower performance WITH FILTER apply the filter pressure drop value for the filter being used or calculate the pressure drop as follows:

Below is typical filter performance data and should only be used as a guideline. Actual performance may vary between manufacturers.

Model	Return Size		
	Height (in.)	Width (in.)	Area (ft^2)
024	26	21	3.8
036	28	26	5.1
048			
060	32	26	5.8
072			
Filter Type	Thickness (in.)	Rated Velocity (fpm)	Initial Resistance (in. w.c.)
MERV 8	1	300	0.21
MERV 11	2	500	0.24
MERV 13	3	500	0.43

To calculate filter pressure drop:

$$Filter\ \Delta P_s = \left[\frac{\left[\frac{CFM}{Area}\right]}{\frac{Rated}{Velocity}}\right] X\ Initial\ Resistance$$

Applying Filter Pressure Drop to Determine Total ESP

To determine the Total ESP of a unit with the filter in place, follow the steps below:

1. Select the filter type and determine Rated Velocity and Initial Resistance
2. For the model being considered determine Max ESP, CFM and Return Area
3. Determine Filter pressure drop (ΔPs) using the equation above
4. Measure (or calculate) the ESP without filter in place
5. Calculate Total ESP = Measured ESP + Filter Pressure Drop
6. Total ESP should be less than or equal to Max ESP

Example:

For an ZT060 at an air flow of 1960 CFM calculate the filter pressure drop with a 2" MERV 11 filter and determine Total ESP and compare to Max ESP.

CFM = 1960
Area = 5.8 ft2
Rated Velocity = 500 fpm
Initial Resistance = 0.24 in.w.c.
Measured ESP without filter = 0.53

1. 1960 CFM ÷ 5.8 ft2 = 338 fpm
2. 338 fpm ÷ 500 fpm = 0.676
3. 0.676 x 0.24 in.w.c. = 0.16 in.w.c. = Filter Pressure Drop
4. Total ESP is 0.53 + 0.16 = 0.69 in.w.c. which is less than the 1.2 in.w.c. Max ESP

Example:

For an ZT036 at an air flow of 1420 CFM calculate the filter pressure drop with a 2" MERV 13 filter and determine Total ESP and compare to Max ESP.

CFM = 1420
Area = 5.1 ft2
Rated Velocity = 500 fpm
Initial Resistance = 0.43 in.w.c.
Measured ESP without filter = 0.53

1. 1420 CFM ÷ 5.1 ft2 = 278 fpm
2. 278 fpm ÷ 500 fpm = 0.556
3. 0.556 x 0.43 in.w.c. = 0.24 in.w.c. = Filter Pressure Drop
4. Total ESP is 0.36 + 0.24 = 0.6 in.w.c. which is less than the 1.1 in.w.c. Max ESP

Glossary of Terms	
CFM = Airflow, Cubic Feet/Minute	HR = Total Heat Of Rejection, Btu/hr
COP = Coefficient of Performance = BTU Output / BTU Input	KW = Total Power Unit Input, Kilowatts
HE = Total Heat Of Extraction, Btu/hr	LAT = Leaving Air Temperature, Fahrenheit
EAT = Entering Air Temperature, Fahrenheit (Dry Bulb/Wet Bulb)	LC = Latent Cooling Capacity, Btu/hr
EER = Energy Efficiency Ratio = BTU output/Watts input	SC = Sensible Cooling Capacity, Btu/hr
EWT = Entering Source Water Temperature, Fahrenheit	LWT = Leaving Source Water Temperature, Fahrenheit
ELT = Entering Load Water Temperature, Fahrenheit	LLT = Leaving Load Water Temperature, Fahrenheit
GPM = Water Flow, Gallons Per Minute	TC = Total Cooling Capacity, Btu/hr
HC = Total Heating Capacity, Btu/hr	WPD = Water Pressure Drop, PSI & Feet of Water

Sensible Cooling Corrections Factor					
EAT (WB) °F	EAT (DB) °F				
	70	75	80	85	90
55	1.094	1.189	NA	NA	NA
60	0.901	1.101	1.273	NA	NA
65	0.692	0.899	1.099	1.305	NA
67	0.612	0.815	1.000	1.223	1.416
70	NA	0.837	0.891	1.099	1.302
75	NA	NA	0.681	0.879	1.088

Cooling Correction Factors			
EAT (WB) °F	TC	HR	kW
55	0.8215	0.8293	0.8635
60	0.8955	0.9001	0.9205
65	0.9701	0.9715	0.9774
67	1.0000	1.0000	1.0000
70	1.0446	1.0425	1.0335
75	1.1179	1.1124	1.0878

Heating and Cooling Calculations	
Heating	Cooling
$LAT = EAT + \frac{HC}{CFM \times 1.08}$	$LAT\ (DB) = EAT\ (DB) - \frac{SC}{CFM \times 1.08}$
$LWT = EWT - \frac{HE}{GPM \times 500}$	$LWT = EWT + \frac{HR}{GPM \times 500}$
LC = TC - SC	

Heating Correction Factors			
EAT °F	HC	HE	kW
50	1.0465	1.1188	0.8024
55	1.0351	1.0918	0.8436
60	1.0253	1.0645	0.8928
65	1.0108	1.0300	0.9454
70	1.0000	1.0000	1.0000
75	0.9895	0.9701	1.0553
80	0.9742	0.9489	1.0518

Water Flow Selection

Proper flow rate is crucial for reliable operation of geothermal heat pumps. The performance data shows three flow rates for each entering water temperature (EWT column). The general "rule of thumb" when selecting flow rates is the following:

- Top flow rate: Open loop systems (1.5 to 2.0 gpm per ton)
- Middle flow rate: Minimum closed loop system flow rate (2.25 to 2.50 gpm/ton)
- Bottom flow rate: Nominal (optimum) closed loop system flow rate (3.0 gpm/ton)

Although the industry standard is adequate in most areas of North America, it is important to consider the application type before applying this "rule of thumb." Antifreeze is generally required for all closed loop (geothermal) applications. Extreme Southern U.S. locations are the only exception. Open loop (well water) systems cannot use antifreeze, and must have enough flow rate in order to avoid freezing conditions at the Leaving Source Water Temperature (LWT) connection.

Calculations must be made for all systems without antifreeze to determine if the top flow rate is adequate to prevent LWT at or near freezing conditions. The following steps should be taken in making this calculation:

1. Determine minimum EWT based upon your geographical area.
2. Go to the performance data table for the heat pump model selected and look up the Heat of Extraction (HE) at the "rule of thumb" water flow rate (GPM) and at the design Entering Air Temperature (EAT).
3. Calculate the temperature difference (TD) based upon the HE and GPM of the model.
4. TD = HE / (GPM x 485).
5. Calculate the LWT.
6. LWT = EWT - TD.
7. If the LWT is below 35-38°F, there is potential for freezing conditions if the flow rate or water temperature is less than ideal conditions, and the flow rate must be increased.

Example 1:
EWT = 50 ^{O}F
Model ZT036, full load. Flow rate = 9 GPM.
Air Flow = 1,220 CFM. HE = 30,200 Btuh.
TD = 30,200 / (9 x 485) = 6.9 ^{O}F
LWT = 50 - 6.9 = 43.1 ^{O}F
Water flow rate is acceptable.

Example 2:
EWT = 40 ^{O}F
Model ZT036, full load. Flow rate = 4.5 GPM.
Air Flow = 1070 CFM. HE = 23,600 Btuh.
TD = 23,600 / (4.5 x 485) = 10.8 ^{O}F
LWT = 40 - 10.8 = 29.2 ^{O}F
Water flow rate must be increased to avoid freezing.

Performance Data Parameters and Guidelines

1. Capacity data is based on 15% (by mass) methanol antifreeze solution (multiplier: 485).
2. Heating data is based on 70°F EAT. Cooling data is based on 80/67°F EAT. Any condition outside performance table(s) requires correction factor(s).
3. Performance data is accurate within ±15%.
4. Unit performance testing is ran without hot water generation.
5. The capacity data includes fan power but does not include pump power. It also does not reflect any fan or pump power corrections for AHRI/ISO rating conditions.
6. Performance data is based upon the lower voltage of dual voltage rated units.
7. Interpolation of unit performance data is permissible; extrapolation is not.
8. Performance data is a result of lab testing and is not related to warranty.
9. Due to variations in installation, actual unit performance may vary from the tabulated data.
10. See Flow Rate Selection above for proper application.
11. Continuous research and development may result in a change to the current product design and specifications without notice.

Extended Data : ZS006, .5 Ton, w/PSC, Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	1.5	2.4	5.5	180	90.5	4.0	2.5	0.45	2.56	Operation Not Recommended						
				200	89.2	4.1	2.7	0.45	2.68							
30	0.8	1.3	3.1	180	90.6	4.0	2.5	0.46	2.56							
				200	89.3	4.1	2.7	0.45	2.69							
	1.1	1.7	3.9	180	91.5	4.1	2.6	0.46	2.64							
				200	90.1	4.3	2.8	0.45	2.77							
	1.5	2.3	5.4	180	92.1	4.3	2.8	0.46	2.70							
				200	90.7	4.4	2.9	0.46	2.84							
40	0.8	1.2	2.7	180	94.3	4.7	3.2	0.47	2.92	180	59.1	6.1	4.0	7.1	0.27	22.5
				200	92.7	4.9	3.4	0.47	3.07	200	60.0	6.5	4.2	7.5	0.27	23.5
	1.1	1.5	3.4	180	95.3	4.9	3.3	0.47	3.02	Operation Not Recommended						
				200	93.7	5.1	3.6	0.47	3.17							
	1.5	2.0	4.6	180	96.1	5.0	3.5	0.48	3.09							
				200	94.4	5.2	3.7	0.47	3.24							
50	0.8	1.1	2.5	180	98.1	5.4	3.9	0.47	3.38	180	59.3	6.1	3.9	7.2	0.32	18.9
				200	96.2	5.6	4.1	0.47	3.55	200	60.2	6.4	4.2	7.6	0.32	19.8
	1.1	1.4	3.2	180	99.2	5.6	4.1	0.47	3.48	180	59.2	6.1	3.9	7.2	0.30	20.1
				200	97.3	5.9	4.3	0.47	3.66	200	60.1	6.5	4.2	7.6	0.31	21.0
	1.5	1.9	4.4	180	100.1	5.8	4.3	0.48	3.56	180	59.2	6.2	3.9	7.3	0.30	21.0
				200	98.1	6.0	4.5	0.47	3.74	200	60.0	6.5	4.2	7.6	0.30	21.9
60	0.8	1.1	2.4	180	101.6	6.1	4.5	0.49	3.63	180	60.1	5.8	3.8	7.1	0.37	15.6
				200	99.5	6.3	4.8	0.49	3.81	200	60.9	6.1	4.0	7.5	0.37	16.3
	1.1	1.3	3.1	180	102.8	6.4	4.7	0.50	3.74	180	60.0	5.9	3.8	7.1	0.35	16.6
				200	100.7	6.6	5.0	0.49	3.93	200	60.8	6.2	4.0	7.5	0.36	17.4
	1.5	1.8	4.2	180	103.8	6.5	4.9	0.50	3.83	180	60.0	5.9	3.8	7.2	0.34	17.3
				200	101.6	6.8	5.2	0.50	4.02	200	60.8	6.3	4.1	7.5	0.34	18.1
70	0.8	1.0	2.3	180	105.0	6.8	5.1	0.50	3.95	180	60.9	5.5	3.6	7.0	0.42	13.1
				200	102.7	7.0	5.4	0.50	4.15	200	61.6	5.8	3.9	7.3	0.42	13.7
	1.1	1.3	3.0	180	106.4	7.1	5.4	0.51	4.07	180	60.8	5.6	3.6	7.0	0.40	13.9
				200	104.1	7.3	5.7	0.50	4.28	200	61.5	5.9	3.9	7.3	0.40	14.5
	1.5	1.8	4.0	180	107.5	7.3	5.6	0.51	4.17	180	60.7	5.6	3.7	7.0	0.39	14.5
				200	105.1	7.5	5.9	0.50	4.38	200	61.5	5.9	3.9	7.3	0.39	15.1
80	0.8	1.0	2.3	180	108.7	7.5	5.8	0.51	4.28	180	61.5	5.2	3.5	6.9	0.47	11.1
				200	106.2	7.8	6.1	0.51	4.50	200	62.2	5.5	3.7	7.1	0.47	11.6
	1.1	1.2	2.8	180	110.3	7.8	6.1	0.52	4.42	180	61.4	5.3	3.5	6.8	0.45	11.8
				200	107.7	8.1	6.4	0.51	4.64	200	62.1	5.6	3.8	7.1	0.45	12.3
	1.5	1.7	3.9	180	111.5	8.0	6.3	0.52	4.52	180	61.4	5.3	3.5	6.9	0.43	12.3
				200	108.8	8.3	6.7	0.51	4.75	200	62.1	5.6	3.8	7.1	0.44	12.8
90	0.8	0.9	2.2	180	112.3	8.2	6.5	0.52	4.59	180	62.1	4.9	3.4	6.7	0.52	9.4
				200	109.6	8.5	6.8	0.52	4.82	200	62.8	5.2	3.6	7.0	0.52	9.9
	1.1	1.2	2.8	180	114.1	8.5	6.8	0.53	4.74	180	62.0	5.0	3.4	6.7	0.49	10.0
				200	111.2	8.9	7.2	0.52	4.97	200	62.7	5.2	3.6	7.0	0.50	10.5
	1.5	1.6	3.8	180	115.4	8.8	7.1	0.53	4.85	180	62.0	5.0	3.4	6.7	0.48	10.4
				200	112.4	9.1	7.4	0.52	5.09	200	62.7	5.3	3.6	7.0	0.48	10.9
100	0.8	1.0	2.2	Operation Not Recommended						180	62.8	4.6	3.3	6.6	0.58	7.9
										200	63.5	4.8	3.5	6.8	0.58	8.3
	1.1	1.2	2.8							180	62.7	4.6	3.3	6.5	0.55	8.4
										200	63.4	4.9	3.5	6.8	0.55	8.8
	1.5	1.6	3.8							180	62.7	4.7	3.3	6.5	0.53	8.8
										200	63.4	4.9	3.5	6.8	0.53	9.2
110	0.8	1.0	2.2							180	63.7	4.2	3.1	6.4	0.64	6.6
										200	64.3	4.5	3.3	6.7	0.65	6.9
	1.1	1.2	2.8							180	63.6	4.3	3.1	6.4	0.61	7.0
										200	64.2	4.5	3.3	6.6	0.61	7.3
	1.5	1.7	3.8							180	63.5	4.3	3.1	6.4	0.59	7.3
										200	64.2	4.6	3.3	6.6	0.60	7.6
120	0.8	0.9	2.2							180	64.1	4.0	3.0	6.4	0.71	5.5
										200	64.7	4.2	3.2	6.6	0.72	5.8
	1.1	1.2	2.7							180	64.0	4.0	3.0	6.3	0.68	5.9
										200	64.6	4.2	3.2	6.6	0.68	6.1
	1.5	1.6	3.7							180	64.0	4.1	3.0	6.3	0.66	6.1
										200	64.6	4.3	3.2	6.5	0.66	6.4

Extended Data : ZS009, .75 Ton, w/PSC, Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	2.3	3.8	8.7	260	92.8	6.4	4.3	0.65	2.92	Operation Not Recommended						
				300	90.1	6.5	4.4	0.64	2.99							
30	1.1	1.5	3.5	260	93.1	6.5	4.4	0.64	2.96							
				300	90.4	6.6	4.5	0.64	3.04							
	1.7	2.5	5.8	260	94.2	6.8	4.6	0.65	3.07							
				300	91.3	6.9	4.8	0.65	3.14							
	2.3	3.6	8.4	260	94.6	6.9	4.7	0.66	3.10							
				300	91.7	7.1	4.9	0.65	3.18							
40	1.1	1.4	3.2	260	97.2	7.7	5.4	0.66	3.39	260	56.7	9.9	6.4	11.4	0.43	23.1
				300	94.0	7.8	5.6	0.66	3.47	300	58.3	10.4	6.9	12.0	0.43	24.3
	1.7	2.3	5.3	260	98.4	8.0	5.8	0.67	3.50	Operation Not Recommended						
				300	95.1	8.2	5.9	0.67	3.59							
	2.3	3.3	7.6	260	99.0	8.2	5.9	0.68	3.54							
				300	95.5	8.3	6.1	0.67	3.63							
50	1.1	1.3	3.0	260	101.4	8.8	6.6	0.66	3.90	260	56.5	9.9	6.4	11.7	0.49	20.1
				300	97.7	9.0	6.8	0.66	4.00	300	58.1	10.4	6.9	12.2	0.49	21.2
	1.7	2.1	4.9	260	102.8	9.2	7.0	0.67	4.04	260	56.4	10.0	6.5	11.7	0.46	21.9
				300	98.9	9.4	7.2	0.67	4.14	300	58.0	10.6	7.0	12.3	0.46	23.0
	2.3	3.1	7.2	260	103.4	9.4	7.1	0.68	4.08	260	56.3	10.1	6.5	11.7	0.44	22.8
				300	99.4	9.6	7.3	0.67	4.19	300	57.9	10.6	7.0	12.3	0.44	24.0
60	1.1	1.2	2.9	260	105.3	10.0	7.6	0.71	4.12	260	57.2	9.6	6.2	11.6	0.56	17.0
				300	101.1	10.1	7.8	0.70	4.22	300	58.7	10.1	6.7	12.1	0.56	17.9
	1.7	2.0	4.7	260	106.9	10.4	8.0	0.72	4.26	260	57.1	9.7	6.3	11.6	0.52	18.4
				300	102.5	10.6	8.2	0.71	4.37	300	58.6	10.2	6.8	12.1	0.52	19.4
	2.3	3.0	6.8	260	107.6	10.6	8.2	0.72	4.30	260	57.0	9.7	6.3	11.6	0.51	19.2
				300	103.1	10.8	8.4	0.72	4.42	300	58.6	10.3	6.8	12.1	0.51	20.3
70	1.1	1.2	2.7	260	109.2	11.1	8.6	0.73	4.43	260	57.9	9.2	6.0	11.4	0.63	14.4
				300	104.6	11.3	8.8	0.72	4.55	300	59.4	9.6	6.5	11.9	0.63	15.2
	1.7	1.9	4.5	260	110.9	11.5	9.0	0.74	4.58	260	57.8	9.3	6.1	11.4	0.59	15.7
				300	106.1	11.8	9.3	0.73	4.70	300	59.3	9.8	6.5	11.9	0.59	16.5
	2.3	2.8	6.5	260	111.7	11.8	9.2	0.74	4.64	260	57.7	9.3	6.1	11.3	0.57	16.3
				300	106.8	12.0	9.5	0.74	4.76	300	59.2	9.8	6.6	11.8	0.57	17.2
80	1.1	1.1	2.6	260	113.2	12.2	9.6	0.75	4.77	260	58.5	8.7	5.9	11.2	0.71	12.3
				300	108.1	12.4	9.9	0.74	4.89	300	60.0	9.2	6.3	11.7	0.71	13.0
	1.7	1.8	4.2	260	115.1	12.7	10.2	0.76	4.93	260	58.4	8.9	5.9	11.2	0.66	13.4
				300	109.8	13.0	10.4	0.75	5.05	300	59.8	9.3	6.4	11.7	0.66	14.1
	2.3	2.7	6.2	260	115.9	13.0	10.4	0.76	4.98	260	58.3	8.9	5.9	11.1	0.63	14.0
				300	110.5	13.2	10.6	0.76	5.11	300	59.8	9.4	6.4	11.6	0.63	14.7
90	1.1	1.1	2.5	260	117.1	13.3	10.7	0.77	5.09	260	59.1	8.3	5.7	11.1	0.79	10.5
				300	111.6	13.5	10.9	0.76	5.22	300	60.5	8.8	6.2	11.5	0.79	11.1
	1.7	1.8	4.0	260	119.2	13.9	11.3	0.77	5.26	260	58.9	8.4	5.8	11.0	0.73	11.4
				300	113.4	14.1	11.5	0.77	5.39	300	60.4	8.9	6.2	11.5	0.73	12.1
	2.3	2.6	5.9	260	120.1	14.1	11.5	0.78	5.32	260	58.9	8.5	5.8	10.9	0.71	11.9
				300	114.2	14.4	11.8	0.77	5.46	300	60.3	8.9	6.2	11.4	0.71	12.6
100	1.1	1.0	2.3	Operation Not Recommended						260	59.9	7.9	5.5	10.9	0.88	8.9
										300	61.2	8.3	5.9	11.3	0.88	9.3
	1.7	1.6	3.8							260	59.7	8.0	5.5	10.8	0.82	9.6
										300	61.1	8.4	6.0	11.2	0.82	10.1
	2.3	2.4	5.5							260	59.7	8.0	5.6	10.7	0.79	10.1
										300	61.1	8.4	6.0	11.2	0.79	10.6
110	1.1	1.0	2.2							260	60.8	7.3	5.3	10.7	0.99	7.4
										300	62.1	7.7	5.6	11.1	0.99	7.8
	1.7	1.6	3.6							260	60.7	7.4	5.3	10.6	0.92	8.0
										300	62.0	7.8	5.7	11.0	0.92	8.4
	2.3	2.3	5.3							260	60.7	7.5	5.3	10.5	0.89	8.4
										300	62.0	7.9	5.7	10.9	0.89	8.8
120	1.1	0.9	2.1							260	61.4	6.9	5.1	10.6	1.09	6.3
										300	62.7	7.3	5.5	11.0	1.09	6.6
	1.7	1.5	3.5							260	61.3	7.0	5.1	10.5	1.02	6.8
										300	62.5	7.4	5.5	10.9	1.02	7.2
	2.3	2.2	5.1							260	61.2	7.0	5.1	10.4	0.98	7.1
										300	62.5	7.4	5.5	10.8	0.98	7.5

Extended Data : ZS012, 1 Ton, w/PSC, Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	3.0	5.6	12.9	310	97.2	9.2	6.2	0.89	3.01	Operation Not Recommended						
				350	94.9	9.4	6.5	0.87	3.19							
30	1.5	2.3	5.4	310	95.9	8.7	5.7	0.90	2.83							
				350	93.6	9.0	6.0	0.87	3.00							
	2.3	3.8	8.9	310	97.0	9.1	6.0	0.91	2.91							
				350	94.6	9.3	6.4	0.89	3.09							
	3.0	5.4	12.4	310	97.5	9.3	6.2	0.92	2.95							
				350	95.1	9.5	6.5	0.89	3.13							
40	1.5	2.1	4.9	310	99.1	9.8	6.7	0.93	3.08	310	55.0	12.8	8.2	14.9	0.62	20.5
				350	96.5	10.1	7.0	0.90	3.27	350	56.7	13.2	8.7	15.3	0.62	21.2
	2.3	3.5	8.1	310	100.3	10.2	7.0	0.94	3.17	Operation Not Recommended						
				350	97.7	10.5	7.4	0.91	3.36							
	3.0	4.9	11.3	310	100.9	10.4	7.2	0.95	3.21							
				350	98.2	10.7	7.6	0.92	3.41							
50	1.5	2.0	4.6	310	103.0	11.1	8.0	0.93	3.51	310	54.8	12.8	8.3	15.2	0.68	18.7
				350	100.2	11.5	8.4	0.90	3.72	350	56.5	13.3	8.8	15.6	0.69	19.3
	2.3	3.3	7.5	310	104.4	11.6	8.4	0.94	3.60	310	54.8	12.9	8.3	15.1	0.65	20.0
				350	101.4	11.9	8.8	0.91	3.82	350	56.4	13.4	8.8	15.6	0.65	20.6
	3.0	4.6	10.6	310	105.1	11.8	8.6	0.95	3.65	310	54.7	13.0	8.3	15.1	0.63	20.6
				350	102.1	12.2	9.1	0.92	3.87	350	56.4	13.4	8.8	15.5	0.63	21.2
60	1.5	1.9	4.3	310	106.6	12.3	9.0	0.99	3.64	310	55.4	12.5	8.1	15.1	0.76	16.5
				350	103.4	12.7	9.4	0.96	3.86	350	57.0	13.0	8.6	15.5	0.76	17.0
	2.3	3.1	7.1	310	108.2	12.8	9.4	1.00	3.74	310	55.3	12.6	8.1	15.0	0.72	17.5
				350	104.8	13.2	9.9	0.98	3.96	350	56.9	13.0	8.6	15.5	0.72	18.1
	3.0	4.3	9.9	310	108.9	13.1	9.7	1.01	3.79	310	55.3	12.6	8.2	15.0	0.70	18.1
				350	105.5	13.5	10.2	0.98	4.02	350	56.9	13.1	8.6	15.4	0.70	18.7
70	1.5	1.8	4.1	310	110.1	13.5	10.0	1.03	3.84	310	55.9	12.1	7.9	15.0	0.84	14.3
				350	106.6	13.9	10.5	1.00	4.07	350	57.5	12.6	8.4	15.4	0.85	14.8
	2.3	2.9	6.7	310	111.8	14.1	10.5	1.04	3.95	310	55.9	12.2	8.0	14.9	0.80	15.3
				350	108.1	14.5	11.1	1.01	4.19	350	57.5	12.6	8.4	15.3	0.80	15.8
	3.0	4.1	9.4	310	112.6	14.3	10.8	1.05	4.00	310	55.8	12.2	8.0	14.9	0.77	15.7
				350	108.9	14.8	11.3	1.02	4.24	350	57.4	12.7	8.4	15.3	0.78	16.2
80	1.5	1.7	3.9	310	114.0	14.8	11.2	1.06	4.09	310	56.5	11.7	7.8	14.9	0.94	12.4
				350	110.2	15.3	11.8	1.03	4.33	350	58.0	12.1	8.2	15.3	0.94	12.8
	2.3	2.8	6.4	310	115.9	15.4	11.8	1.08	4.20	310	56.4	11.8	7.8	14.8	0.89	13.3
				350	111.9	15.9	12.4	1.05	4.45	350	58.0	12.2	8.2	15.2	0.89	13.7
	3.0	3.9	8.9	310	116.8	15.7	12.1	1.08	4.26	310	56.4	11.8	7.8	14.7	0.86	13.7
				350	112.7	16.2	12.7	1.05	4.51	350	57.9	12.2	8.2	15.1	0.86	14.1
90	1.5	1.6	3.7	310	117.6	16.0	12.3	1.10	4.28	310	57.5	11.1	7.4	14.5	1.03	10.6
				350	113.5	16.5	12.9	1.07	4.54	350	59.0	11.4	7.8	14.9	1.04	11.0
	2.3	2.6	6.1	310	119.6	16.7	12.9	1.11	4.40	310	57.4	11.1	7.4	14.4	0.98	11.3
				350	115.3	17.2	13.5	1.08	4.67	350	58.9	11.5	7.9	14.8	0.98	11.7
	3.0	3.7	8.5	310	120.6	17.0	13.2	1.12	4.46	310	57.4	11.1	7.5	14.3	0.95	11.7
				350	116.2	17.6	13.9	1.09	4.73	350	58.9	11.5	7.9	14.7	0.95	12.1
100	1.5	1.5	3.5	Operation Not Recommended						310	59.2	10.1	6.9	13.9	1.14	8.8
										350	60.6	10.4	7.2	14.3	1.14	9.1
	2.3	2.5	5.7							310	59.1	10.2	6.9	13.8	1.07	9.4
										350	60.5	10.5	7.3	14.1	1.07	9.7
	3.0	3.4	7.9							310	59.1	10.2	6.9	13.7	1.04	9.7
										350	60.5	10.5	7.3	14.0	1.04	10.0
110	1.5	1.5	3.4							310	61.4	8.9	6.1	13.1	1.24	7.2
										350	62.6	9.2	6.5	13.4	1.24	7.4
	2.3	2.4	5.5							310	61.3	9.0	6.2	12.9	1.17	7.6
										350	62.5	9.3	6.5	13.2	1.17	7.9
	3.0	3.3	7.7							310	61.3	9.0	6.2	12.8	1.14	7.9
										350	62.5	9.3	6.5	13.1	1.14	8.1
120	1.5	1.4	3.3							310	62.8	8.0	5.7	12.6	1.35	5.9
										350	63.9	8.3	6.0	12.8	1.35	6.1
	2.3	2.3	5.4							310	62.7	8.1	5.7	12.4	1.28	6.3
										350	63.9	8.4	6.0	12.7	1.28	6.5
	3.0	3.2	7.5							310	62.7	8.1	5.7	12.3	1.24	6.5
										350	63.9	8.4	6.0	12.6	1.24	6.7

Extended Data : ZS015, 1.25 Ton, w/ECM, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	3.8	5.2	12.0	460	92.0	11.0	8.0	0.89	3.60	Operation Not Recommended						
				530	88.7	10.7	7.8	0.86	3.64							
30	1.9	2.2	5.1	460	92.1	11.0	8.0	0.89	3.61							
				530	88.7	10.8	7.8	0.86	3.66							
	2.8	3.4	7.9	460	93.1	11.5	8.5	0.90	3.74							
				530	89.6	11.3	8.3	0.87	3.79							
	3.8	5.0	11.5	460	93.8	11.9	8.8	0.91	3.82							
				530	90.2	11.6	8.6	0.88	3.87							
40	1.9	2.0	4.5	460	95.0	12.5	9.4	0.92	3.99	460	56.6	18.1	11.7	19.6	0.53	33.9
				530	91.2	12.2	9.2	0.88	4.04	530	58.6	18.6	12.3	20.1	0.54	34.5
	2.8	3.0	6.9	460	96.2	13.1	9.9	0.93	4.13	Operation Not Recommended						
				530	92.2	12.8	9.7	0.89	4.19							
	3.8	4.4	10.0	460	96.9	13.5	10.3	0.93	4.22							
				530	92.9	13.2	10.1	0.90	4.27							
50	1.9	1.8	4.2	460	98.1	14.0	10.9	0.92	4.48	460	56.5	17.9	11.7	19.7	0.63	28.3
				530	93.8	13.7	10.7	0.88	4.53	530	58.5	18.4	12.3	20.3	0.64	28.9
	2.8	2.8	6.4	460	99.4	14.7	11.5	0.93	4.64	460	56.4	18.1	11.8	19.8	0.59	30.5
				530	94.9	14.3	11.3	0.89	4.70	530	58.4	18.7	12.4	20.4	0.60	31.1
	3.8	4.0	9.3	460	100.2	15.1	11.9	0.93	4.73	460	56.3	18.2	11.8	19.8	0.57	31.9
				530	95.6	14.8	11.7	0.90	4.79	530	58.4	18.8	12.4	20.4	0.58	32.5
60	1.9	1.7	3.9	460	101.5	15.7	12.4	0.96	4.77	460	57.2	17.2	11.4	19.4	0.74	23.3
				530	96.7	15.4	12.2	0.93	4.83	530	59.1	17.8	12.0	20.0	0.75	23.8
	2.8	2.6	6.0	460	102.9	16.4	13.1	0.97	4.94	460	57.0	17.5	11.5	19.5	0.69	25.1
				530	97.9	16.1	12.9	0.94	5.01	530	59.0	18.0	12.1	20.1	0.70	25.6
	3.8	3.8	8.7	460	103.9	16.9	13.6	0.98	5.05	460	57.0	17.5	11.5	19.5	0.67	26.2
				530	98.8	16.5	13.3	0.95	5.11	530	59.0	18.1	12.1	20.1	0.67	26.8
70	1.9	1.6	3.7	460	105.2	17.6	14.2	0.99	5.20	460	57.8	16.5	11.1	19.1	0.85	19.5
				530	99.9	17.2	13.9	0.96	5.27	530	59.7	17.1	11.7	19.6	0.86	19.9
	2.8	2.5	5.7	460	106.9	18.4	15.0	1.00	5.39	460	57.7	16.8	11.2	19.2	0.79	21.0
				530	101.3	18.0	14.7	0.97	5.45	530	59.6	17.3	11.7	19.7	0.80	21.4
	3.8	3.6	8.3	460	108.0	19.0	15.5	1.01	5.50	460	57.6	16.8	11.2	19.1	0.76	22.0
				530	102.2	18.5	15.2	0.97	5.57	530	59.6	17.3	11.8	19.7	0.77	22.4
80	1.9	1.5	3.5	460	109.3	19.6	16.1	1.02	5.64	460	58.3	15.9	10.8	18.8	0.95	16.6
				530	103.3	19.2	15.8	0.98	5.71	530	60.1	16.4	11.4	19.3	0.96	16.9
	2.8	2.3	5.4	460	111.1	20.5	17.0	1.03	5.84	460	58.1	16.1	10.9	18.8	0.90	17.9
				530	104.9	20.1	16.7	0.99	5.92	530	60.0	16.6	11.5	19.3	0.91	18.2
	3.8	3.4	7.8	460	112.3	21.1	17.6	1.04	5.96	460	58.1	16.1	10.9	18.8	0.86	18.7
				530	105.9	20.7	17.2	1.00	6.04	530	60.0	16.6	11.5	19.3	0.87	19.1
90	1.9	1.5	3.3	460	113.5	21.7	18.1	1.05	6.08	460	58.8	15.2	10.6	18.5	1.07	14.2
				530	106.9	21.2	17.8	1.01	6.15	530	60.6	15.6	11.2	19.0	1.08	14.5
	2.8	2.2	5.1	460	115.5	22.7	19.1	1.06	6.29	460	58.6	15.3	10.7	18.5	1.00	15.3
				530	108.6	22.2	18.7	1.02	6.37	530	60.5	15.8	11.2	19.0	1.01	15.6
	3.8	3.2	7.4	460	116.9	23.4	19.7	1.07	6.42	460	58.6	15.4	10.7	18.4	0.96	16.0
				530	109.8	22.9	19.3	1.03	6.51	530	60.4	15.9	11.2	18.9	0.97	16.3
100	1.9	1.4	3.1	Operation Not Recommended						460	59.5	14.3	10.2	18.0	1.19	12.0
										530	61.2	14.7	10.8	18.5	1.20	12.2
	2.8	2.0	4.7							460	59.3	14.5	10.3	17.9	1.11	12.9
										530	61.1	14.9	10.9	18.4	1.13	13.2
	3.8	3.0	6.9							460	59.3	14.5	10.3	17.9	1.07	13.5
										530	61.1	15.0	10.9	18.4	1.08	13.8
110	1.9	1.3	3.0							460	60.4	13.2	9.8	17.4	1.32	10.0
										530	62.1	13.6	10.3	17.8	1.33	10.2
	2.8	2.0	4.6							460	60.3	13.3	9.9	17.3	1.24	10.7
										530	62.0	13.8	10.4	17.7	1.25	11.0
	3.8	2.9	6.6							460	60.2	13.4	9.9	17.2	1.19	11.2
										530	61.9	13.8	10.4	17.6	1.20	11.4
120	1.9	1.3	3.0							460	61.0	12.0	9.5	16.7	1.45	8.3
										530	62.6	12.4	10.0	17.1	1.46	8.4
	2.8	2.0	4.5							460	60.9	12.2	9.5	16.5	1.36	8.9
										530	62.5	12.6	10.0	17.0	1.37	9.1
	3.8	2.9	6.6							460	60.9	12.3	9.5	16.4	1.31	9.3
										530	62.5	12.6	10.1	16.8	1.32	9.5

Extended Data : ZS017, 1.5 Ton, w/ECM, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	4.5	6.5	14.9	530	91.5	12.0	8.6	1.11	3.16	Operation Not Recommended						
				600	89.1	12.1	8.8	1.08	3.27							
30	2.3	2.9	6.7	530	91.6	12.0	8.6	1.12	3.15							
				600	89.2	12.1	8.8	1.09	3.27							
	3.4	4.4	10.2	530	92.5	12.6	9.1	1.13	3.26							
				600	90.0	12.7	9.3	1.10	3.38							
	4.5	6.2	14.4	530	93.0	12.9	9.4	1.13	3.32							
				600	90.5	13.0	9.6	1.10	3.45							
40	2.3	2.5	5.9	530	94.6	13.8	10.3	1.15	3.50	530	57.1	19.8	12.9	22.4	0.71	27.6
				600	91.9	13.9	10.5	1.12	3.63	610	59.4	20.1	13.4	22.9	0.73	27.5
	3.4	3.9	9.0	530	95.7	14.3	10.8	1.16	3.61	Operation Not Recommended						
				600	92.9	14.4	11.1	1.13	3.74							
	4.5	5.5	12.7	530	96.3	14.7	11.2	1.17	3.68							
				600	93.4	14.8	11.4	1.13	3.82							
50	2.3	2.4	5.5	530	97.9	15.6	12.1	1.15	3.95	530	56.7	19.8	13.1	22.8	0.82	24.2
				600	94.8	15.7	12.4	1.12	4.10	610	59.1	20.1	13.6	23.2	0.84	24.0
	3.4	3.6	8.4	530	99.0	16.2	12.8	1.16	4.08	530	56.5	20.0	13.2	22.9	0.77	25.9
				600	95.9	16.3	13.0	1.13	4.23	610	58.9	20.4	13.7	23.4	0.79	25.7
	4.5	5.1	11.8	530	99.7	16.6	13.1	1.17	4.16	530	56.4	20.2	13.3	22.9	0.75	26.9
				600	96.5	16.7	13.4	1.13	4.32	610	58.8	20.5	13.7	23.4	0.77	26.8
60	2.3	2.2	5.1	530	101.3	17.5	13.8	1.23	4.17	530	57.5	19.0	12.7	22.4	0.94	20.2
				600	97.9	17.6	14.1	1.19	4.33	610	59.8	19.3	13.1	22.8	0.96	20.1
	3.4	3.4	7.9	530	102.6	18.2	14.6	1.24	4.30	530	57.3	19.3	12.8	22.5	0.89	21.7
				600	99.1	18.4	14.8	1.20	4.47	610	59.6	19.6	13.2	23.0	0.91	21.6
	4.5	4.8	11.2	530	103.4	18.7	15.0	1.24	4.39	530	57.2	19.4	12.9	22.5	0.86	22.6
				600	99.8	18.8	15.3	1.21	4.56	610	59.5	19.7	13.3	23.0	0.88	22.4
70	2.3	2.1	4.9	530	105.0	19.6	15.9	1.26	4.53	530	58.3	18.1	12.2	21.9	1.06	17.0
				600	101.2	19.7	16.1	1.23	4.70	610	60.5	18.5	12.6	22.4	1.09	16.9
	3.4	3.3	7.5	530	106.5	20.4	16.7	1.28	4.67	530	58.1	18.4	12.3	22.0	1.00	18.3
				600	102.5	20.6	16.9	1.24	4.85	610	60.4	18.7	12.7	22.5	1.03	18.2
	4.5	4.6	10.6	530	107.4	20.9	17.1	1.28	4.77	530	58.0	18.5	12.4	22.0	0.97	19.0
				600	103.3	21.0	17.4	1.25	4.95	610	60.3	18.8	12.8	22.4	1.00	18.9
80	2.3	2.0	4.7	530	109.0	21.8	18.0	1.30	4.92	530	58.9	17.4	11.9	21.6	1.19	14.6
				600	104.8	22.0	18.3	1.26	5.10	610	61.1	17.7	12.3	22.0	1.22	14.5
	3.4	3.1	7.2	530	110.7	22.7	18.9	1.31	5.08	530	58.7	17.6	12.0	21.6	1.12	15.6
				600	106.2	22.9	19.2	1.27	5.27	610	60.9	17.9	12.4	22.1	1.15	15.5
	4.5	4.4	10.1	530	111.6	23.2	19.5	1.31	5.18	530	58.7	17.7	12.0	21.6	1.09	16.3
				600	107.1	23.4	19.8	1.28	5.37	610	60.8	18.0	12.4	22.0	1.11	16.2
90	2.3	1.9	4.5	530	113.1	24.1	20.3	1.33	5.31	530	59.4	16.6	11.6	21.2	1.31	12.6
				600	108.4	24.3	20.6	1.29	5.51	610	61.5	16.9	12.0	21.6	1.35	12.5
	3.4	3.0	6.9	530	114.9	25.1	21.2	1.34	5.48	530	59.3	16.8	11.7	21.2	1.24	13.5
				600	110.0	25.3	21.6	1.30	5.68	610	61.4	17.2	12.1	21.7	1.28	13.4
	4.5	4.2	9.7	530	116.0	25.7	21.8	1.34	5.59	530	59.2	16.9	11.7	21.2	1.20	14.0
				600	111.0	25.9	22.2	1.31	5.80	610	61.3	17.2	12.1	21.6	1.23	13.9
100	2.3	1.8	4.1	Operation Not Recommended						530	60.1	15.7	11.2	20.7	1.45	10.8
										610	62.1	16.0	11.6	21.1	1.49	10.7
	3.4	2.8	6.4							530	59.9	15.9	11.3	20.7	1.37	11.5
										610	62.0	16.2	11.7	21.1	1.41	11.5
	4.5	3.9	9.1							530	59.8	16.0	11.4	20.6	1.33	12.0
										610	61.9	16.3	11.7	21.1	1.36	11.9
110	2.3	1.7	4.0							530	60.9	14.6	10.8	20.1	1.60	9.1
										610	62.8	14.9	11.1	20.5	1.64	9.0
	3.4	2.7	6.2							530	60.7	14.8	10.9	20.0	1.51	9.7
										610	62.7	15.1	11.2	20.5	1.55	9.7
	4.5	3.8	8.7							530	60.7	14.9	10.9	20.0	1.46	10.1
										610	62.6	15.2	11.3	20.4	1.50	10.1
120	2.3	1.7	3.8							530	61.3	13.7	10.5	19.8	1.75	7.8
										610	63.2	14.0	10.9	20.2	1.79	7.8
	3.4	2.6	6.0							530	61.2	13.9	10.6	19.7	1.65	8.4
										610	63.1	14.2	11.0	20.1	1.70	8.3
	4.5	3.7	8.4							530	61.1	14.0	10.7	19.5	1.60	8.7
										610	63.0	14.3	11.0	20.0	1.64	8.6

Extended Data : ZS018, 1.5 Ton, w/ECM, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	4.5	4.8	11.0	620	91.8	14.6	10.7	1.20	3.57	Operation Not Recommended						
				710	89.0	14.6	10.8	1.15	3.70							
30	2.3	2.3	5.2	620	91.9	14.7	10.9	1.17	3.68							
				710	89.1	14.7	10.9	1.13	3.81							
	3.4	3.4	7.8	620	92.9	15.3	11.5	1.18	3.81							
				710	89.9	15.3	11.5	1.13	3.94							
	4.5	4.6	10.6	620	93.5	15.8	11.9	1.19	3.89							
				710	90.4	15.7	11.9	1.14	4.03							
40	2.3	1.9	4.3	620	94.5	16.5	12.6	1.16	4.16	630	56.1	24.2	15.6	26.9	0.67	36.1
				710	91.3	16.4	12.7	1.11	4.31	720	57.9	24.5	16.5	27.2	0.68	36.0
	3.4	2.9	6.6	620	95.5	17.1	13.3	1.17	4.31	Operation Not Recommended						
				710	92.2	17.1	13.4	1.12	4.46							
	4.5	4.0	9.1	620	96.2	17.6	13.7	1.17	4.40							
				710	92.8	17.6	13.8	1.13	4.55							
50	2.3	1.8	4.1	620	97.2	18.3	14.4	1.16	4.62	630	55.5	24.4	16.0	27.4	0.77	31.5
				710	93.7	18.2	14.5	1.11	4.78	720	57.4	24.7	16.9	27.7	0.78	31.4
	3.4	2.7	6.3	620	98.3	19.0	15.2	1.17	4.78	630	55.3	24.7	16.1	27.5	0.71	34.7
				710	94.7	19.0	15.2	1.12	4.95	720	57.3	24.9	17.0	27.8	0.72	34.5
	4.5	3.8	8.7	620	99.1	19.6	15.7	1.17	4.88	630	55.3	24.9	16.1	27.6	0.67	36.8
				710	95.3	19.5	15.7	1.13	5.05	720	57.2	25.1	17.0	27.9	0.69	36.6
60	2.3	1.7	3.9	620	100.3	20.3	16.4	1.19	5.01	630	56.1	23.6	15.6	27.0	0.89	26.4
				710	96.4	20.3	16.5	1.14	5.19	720	58.0	23.9	16.5	27.3	0.91	26.2
	3.4	2.6	6.0	620	101.6	21.2	17.2	1.20	5.19	630	55.9	23.9	15.7	27.1	0.82	29.0
				710	97.5	21.1	17.3	1.15	5.37	720	57.8	24.2	16.6	27.4	0.84	28.9
	4.5	3.6	8.3	620	102.5	21.8	17.8	1.20	5.30	630	55.9	24.1	15.8	27.1	0.78	30.8
				710	98.2	21.7	17.9	1.16	5.49	720	57.8	24.3	16.6	27.4	0.79	30.6
70	2.3	1.6	3.7	620	103.7	22.6	18.6	1.22	5.42	630	56.7	22.8	15.2	26.6	1.04	21.9
				710	99.3	22.6	18.7	1.18	5.61	720	58.6	23.0	16.0	26.9	1.05	21.8
	3.4	2.5	5.7	620	105.2	23.6	19.5	1.23	5.61	630	56.6	23.0	15.3	26.6	0.95	24.1
				710	100.6	23.5	19.6	1.19	5.81	720	58.4	23.3	16.1	26.9	0.97	24.0
	4.5	3.4	7.9	620	106.1	24.2	20.1	1.24	5.73	630	56.5	23.2	15.3	26.6	0.90	25.6
				710	101.4	24.2	20.2	1.19	5.93	720	58.4	23.4	16.1	26.9	0.92	25.5
80	2.3	1.6	3.6	620	107.3	25.0	20.8	1.26	5.79	630	57.1	22.0	14.9	26.3	1.20	18.3
				710	102.4	24.9	20.9	1.22	6.00	720	59.0	22.2	15.7	26.6	1.22	18.2
	3.4	2.4	5.5	620	108.8	26.1	21.9	1.27	6.00	630	57.0	22.2	15.0	26.3	1.10	20.1
				710	103.8	26.0	21.9	1.23	6.21	720	58.8	22.5	15.8	26.6	1.12	20.0
	4.5	3.3	7.6	620	109.9	26.8	22.5	1.28	6.13	630	57.0	22.4	15.1	26.3	1.05	21.4
				710	104.7	26.7	22.6	1.23	6.34	720	58.8	22.6	15.8	26.6	1.06	21.3
90	2.3	1.5	3.5	620	110.9	27.5	23.2	1.30	6.17	630	57.5	21.2	14.7	26.1	1.38	15.3
				710	105.6	27.4	23.2	1.26	6.39	720	59.3	21.4	15.5	26.4	1.40	15.2
	3.4	2.3	5.3	620	112.7	28.6	24.3	1.31	6.38	630	57.3	21.4	14.8	26.0	1.27	16.8
				710	107.1	28.5	24.3	1.26	6.61	720	59.1	21.6	15.6	26.3	1.29	16.7
	4.5	3.2	7.3	620	113.9	29.4	25.1	1.32	6.52	630	57.3	21.6	14.8	25.9	1.21	17.8
				710	108.1	29.3	25.1	1.27	6.75	720	59.1	21.8	15.6	26.2	1.23	17.7
100	2.3	1.4	3.1	Operation Not Recommended						630	58.1	20.1	14.3	25.7	1.60	12.5
										720	59.8	20.3	15.1	26.0	1.62	12.4
	3.4	2.1	4.9							630	57.9	20.3	14.4	25.5	1.47	13.8
										720	59.7	20.5	15.2	25.8	1.49	13.7
	4.5	3.0	6.9							630	57.9	20.5	14.4	25.4	1.40	14.6
										720	59.6	20.7	15.2	25.7	1.42	14.5
110	2.3	1.3	3.1							630	58.9	18.7	13.8	25.1	1.85	10.1
										720	60.6	18.9	14.5	25.4	1.88	10.0
	3.4	2.1	4.7							630	58.8	18.9	13.9	24.9	1.70	11.1
										720	60.5	19.1	14.6	25.2	1.73	11.0
	4.5	2.9	6.7							630	58.8	19.1	13.9	24.7	1.62	11.7
										720	60.4	19.3	14.6	25.0	1.64	11.7
120	2.3	1.3	3.0							630	59.6	17.5	13.3	24.9	2.15	8.1
										720	61.2	17.7	14.0	25.2	2.19	8.0
	3.4	2.0	4.6							630	59.5	17.7	13.4	24.5	1.98	8.9
										720	61.1	17.9	14.1	24.8	2.01	8.8
	4.5	2.8	6.5							630	59.4	17.8	13.4	24.3	1.88	9.4
										720	61.1	18.0	14.2	24.6	1.91	9.4

Extended Data : ZT024, 2 Ton, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	6.0	6.8	15.7	780	92.3	18.8	13.5	1.58	3.48	Operation Not Recommended						
				890	89.5	18.8	13.6	1.53	3.59							
30	3.0	3.0	6.9	780	92.4	18.9	13.5	1.60	3.45							
				890	89.6	18.8	13.6	1.55	3.56							
	4.5	4.6	10.5	780	93.4	19.7	14.3	1.61	3.58							
				890	90.5	19.7	14.4	1.56	3.69							
	6.0	6.5	15.0	780	94.0	20.2	14.8	1.63	3.64							
				890	91.0	20.2	14.9	1.58	3.75							
40	3.0	2.6	6.0	780	95.2	21.2	15.9	1.58	3.92	790	56.5	30.6	19.6	34.5	1.03	29.8
				890	92.0	21.2	16.0	1.53	4.04	900	58.2	31.3	20.7	35.3	1.04	29.9
	4.5	4.0	9.2	780	96.3	22.1	16.8	1.59	4.06	Operation Not Recommended						
				890	93.0	22.1	16.9	1.54	4.19							
	6.0	5.7	13.2	780	97.0	22.7	17.3	1.61	4.13							
				890	93.6	22.7	17.5	1.56	4.27							
50	3.0	2.4	5.6	780	98.1	23.7	18.4	1.58	4.38	790	56.4	30.5	19.8	34.9	1.16	26.3
				890	94.6	23.7	18.5	1.53	4.52	900	58.1	31.2	20.9	35.6	1.18	26.4
	4.5	3.8	8.7	780	99.4	24.8	19.4	1.59	4.54	790	56.2	30.8	19.9	34.9	1.08	28.6
				890	95.7	24.7	19.5	1.54	4.69	900	58.0	31.5	21.0	35.7	1.10	28.7
	6.0	5.4	12.4	780	100.2	25.4	20.0	1.61	4.62	790	56.2	30.9	19.9	34.8	1.03	29.9
				890	96.4	25.4	20.2	1.56	4.77	900	57.9	31.5	21.0	35.5	1.05	30.0
60	3.0	2.3	5.3	780	101.6	26.6	21.2	1.61	4.84	790	56.9	29.6	19.3	34.5	1.32	22.4
				890	97.6	26.6	21.3	1.56	4.99	900	58.6	30.2	20.4	35.2	1.34	22.5
	4.5	3.6	8.2	780	103.0	27.8	22.3	1.62	5.02	790	56.8	29.9	19.4	34.4	1.22	24.4
				890	98.9	27.7	22.5	1.57	5.17	900	58.5	30.5	20.5	35.2	1.24	24.5
	6.0	5.1	11.7	780	103.8	28.5	23.0	1.64	5.10	790	56.8	29.9	19.4	34.3	1.17	25.5
				890	99.6	28.5	23.2	1.58	5.26	900	58.5	30.5	20.5	35.0	1.19	25.6
70	3.0	2.2	5.1	780	105.3	29.7	24.0	1.70	5.13	790	57.6	28.5	18.8	34.0	1.49	19.0
				890	100.9	29.7	24.2	1.64	5.29	900	59.2	29.1	19.8	34.6	1.52	19.1
	4.5	3.4	7.9	780	106.8	31.0	25.3	1.71	5.32	790	57.4	28.8	18.9	33.9	1.39	20.7
				890	102.3	31.0	25.4	1.65	5.49	900	59.1	29.4	19.9	34.6	1.41	20.7
	6.0	4.9	11.2	780	107.8	31.9	26.1	1.72	5.41	790	57.4	28.8	18.9	33.7	1.33	21.6
				890	103.1	31.8	26.2	1.67	5.58	900	59.0	29.4	20.0	34.4	1.35	21.7
80	3.0	2.1	4.9	780	109.0	32.9	26.8	1.79	5.37	790	58.0	27.5	18.4	33.6	1.70	16.2
				890	104.2	32.8	27.0	1.74	5.54	900	59.6	28.1	19.4	34.3	1.73	16.2
	4.5	3.3	7.6	780	110.7	34.3	28.3	1.80	5.57	790	57.9	27.8	18.5	33.5	1.58	17.6
				890	105.7	34.3	28.4	1.75	5.75	900	59.5	28.3	19.5	34.2	1.60	17.6
	6.0	4.7	10.8	780	111.8	35.2	29.1	1.82	5.67	790	57.9	27.8	18.5	33.3	1.51	18.4
				890	106.6	35.2	29.3	1.76	5.85	900	59.5	28.4	19.5	34.0	1.53	18.4
90	3.0	2.0	4.7	780	112.8	36.1	29.7	1.91	5.53	790	58.5	26.4	18.0	33.3	1.92	13.7
				890	107.5	36.1	29.8	1.85	5.70	900	60.1	27.0	19.0	34.0	1.96	13.7
	4.5	3.1	7.3	780	114.7	37.7	31.2	1.92	5.73	790	58.3	26.7	18.1	33.1	1.79	14.9
				890	109.2	37.7	31.4	1.86	5.92	900	59.9	27.3	19.1	33.8	1.82	14.9
	6.0	4.5	10.4	780	115.9	38.7	32.2	1.94	5.83	790	58.3	26.7	18.1	32.9	1.71	15.6
				890	110.2	38.7	32.3	1.88	6.02	900	59.9	27.3	19.1	33.6	1.74	15.6
100	3.0	1.9	4.4	Operation Not Recommended						790	59.1	25.1	17.5	32.9	2.19	11.4
										900	60.7	25.6	18.4	33.5	2.23	11.4
	4.5	3.0	7.0							790	59.0	25.4	17.6	32.6	2.04	12.4
										900	60.5	25.9	18.5	33.3	2.07	12.4
	6.0	4.3	9.9							790	59.0	25.4	17.6	32.3	1.95	13.0
										900	60.5	25.9	18.6	33.0	1.98	13.0
110	3.0	1.9	4.3							790	60.1	23.4	16.7	32.3	2.54	9.2
										900	61.5	23.9	17.6	32.9	2.58	9.2
	4.5	3.0	6.8							790	59.9	23.6	16.8	31.9	2.36	10.0
										900	61.4	24.1	17.7	32.5	2.40	10.0
	6.0	4.2	9.7							790	59.9	23.6	16.8	31.6	2.26	10.4
										900	61.4	24.1	17.7	32.2	2.30	10.5
120	3.0	1.8	4.2							790	61.0	21.4	15.9	31.9	3.03	7.0
										900	62.4	21.8	16.8	32.5	3.09	7.0
	4.5	2.9	6.7							790	60.9	21.6	16.0	31.4	2.82	7.6
										900	62.3	22.0	16.9	32.0	2.87	7.6
	6.0	4.1	9.5							790	60.9	21.6	16.0	31.0	2.70	8.0
										900	62.3	22.1	16.9	31.6	2.74	8.0

Extended Data : ZT024, 2 Ton, COAX Part Load Performance Data

EWT	Flow	WPD		Part Load Heating						Part Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	4.0	4.1	9.4	600	87.8	11.5	7.5	1.19	2.84	Operation Not Recommended						
				690	85.7	11.7	7.7	1.17	2.92							
30	2.0	2.0	4.6	600	87.9	11.6	7.5	1.23	2.76							
				690	85.8	11.8	7.7	1.21	2.84							
	3.0	2.9	6.7	600	88.9	12.3	8.2	1.21	2.96							
				690	86.7	12.4	8.4	1.19	3.05							
	4.0	3.9	9.0	600	89.4	12.6	8.6	1.20	3.08							
				690	87.1	12.8	8.8	1.18	3.17							
40	2.0	1.8	4.1	600	91.6	14.0	10.0	1.19	3.45	610	57.1	22.1	14.8	24.3	0.54	40.9
				690	89.1	14.2	10.3	1.17	3.55	700	58.7	22.7	15.8	24.9	0.55	41.5
	3.0	2.6	5.9	600	92.9	14.8	10.9	1.17	3.70	Operation Not Recommended						
				690	90.2	15.0	11.1	1.15	3.81							
	4.0	3.4	7.9	600	93.5	15.2	11.3	1.16	3.85							
				690	90.7	15.4	11.6	1.14	3.96							
50	2.0	1.7	3.9	600	95.2	16.3	12.4	1.19	4.03	610	56.9	22.0	14.9	24.6	0.67	33.1
				690	92.3	16.6	12.6	1.17	4.14	700	58.5	22.6	15.9	25.2	0.67	33.6
	3.0	2.4	5.6	600	96.7	17.3	13.3	1.17	4.32	610	56.8	22.2	15.0	24.6	0.60	37.0
				690	93.5	17.5	13.6	1.15	4.45	700	58.5	22.8	16.0	25.2	0.61	37.6
	4.0	3.2	7.5	600	97.4	17.8	13.9	1.16	4.49	610	56.7	22.4	15.0	24.7	0.56	39.8
				690	94.2	18.0	14.2	1.14	4.62	700	58.4	23.0	16.0	25.2	0.57	40.4
60	2.0	1.6	3.7	600	98.4	18.4	14.6	1.12	4.81	610	57.7	21.2	14.4	24.3	0.81	26.1
				690	95.1	18.7	15.0	1.10	4.95	700	59.2	21.8	15.4	24.8	0.82	26.5
	3.0	2.3	5.3	600	100.0	19.4	15.7	1.10	5.17	610	57.6	21.4	14.5	24.2	0.73	29.2
				690	96.5	19.7	16.1	1.09	5.31	700	59.1	22.0	15.5	24.8	0.74	29.7
	4.0	3.1	7.1	600	100.9	20.0	16.3	1.09	5.37	610	57.5	21.6	14.5	24.3	0.69	31.4
				690	97.2	20.3	16.7	1.08	5.52	700	59.1	22.1	15.5	24.8	0.69	31.9
70	2.0	1.5	3.5	600	101.5	20.4	16.6	1.12	5.33	610	58.3	20.4	14.0	24.0	0.98	20.8
				690	97.8	20.7	17.0	1.10	5.49	700	59.9	20.9	14.9	24.5	0.98	21.2
	3.0	2.2	5.1	600	103.3	21.6	17.8	1.10	5.73	610	58.2	20.6	14.0	23.8	0.88	23.4
				690	99.3	21.9	18.2	1.09	5.89	700	59.8	21.1	15.0	24.4	0.89	23.7
	4.0	3.0	6.8	600	104.2	22.2	18.5	1.09	5.95	610	58.2	20.7	14.1	23.8	0.82	25.1
				690	100.2	22.5	18.9	1.08	6.12	700	59.7	21.2	15.0	24.4	0.83	25.5
80	2.0	1.5	3.4	600	104.8	22.6	18.8	1.13	5.86	610	58.8	19.6	13.7	23.7	1.15	17.0
				690	100.7	22.9	19.1	1.11	6.03	700	60.3	20.0	14.6	24.3	1.16	17.2
	3.0	2.1	4.9	600	106.8	23.8	20.1	1.11	6.29	610	58.7	19.8	13.8	23.5	1.04	19.0
				690	102.4	24.2	20.5	1.09	6.47	700	60.2	20.2	14.7	24.1	1.05	19.3
	4.0	2.9	6.6	600	107.8	24.5	20.8	1.10	6.53	610	58.6	19.9	13.8	23.5	0.97	20.4
				690	103.4	24.9	21.2	1.08	6.72	700	60.1	20.4	14.7	24.0	0.98	20.7
90	2.0	1.4	3.3	600	108.2	24.7	20.9	1.15	6.31	610	59.2	18.7	13.4	23.5	1.35	13.8
				690	103.7	25.1	21.3	1.13	6.50	700	60.6	19.1	14.3	24.0	1.36	14.0
	3.0	2.1	4.8	600	110.3	26.1	22.3	1.13	6.78	610	59.1	18.9	13.5	23.2	1.21	15.5
				690	105.6	26.5	22.8	1.11	6.97	700	60.6	19.3	14.4	23.7	1.22	15.7
	4.0	2.8	6.4	600	111.4	26.9	23.1	1.12	7.04	610	59.0	19.0	13.6	23.1	1.14	16.7
				690	106.6	27.2	23.5	1.10	7.24	700	60.5	19.5	14.5	23.6	1.15	16.9
100	2.0	1.4	3.2	Operation Not Recommended						610	59.9	17.5	13.0	23.0	1.57	11.1
										700	61.3	17.9	13.9	23.5	1.58	11.3
	3.0	2.0	4.6							610	59.8	17.7	13.1	22.7	1.41	12.5
										700	61.2	18.1	13.9	23.2	1.43	12.6
	4.0	2.7	6.1							610	59.7	17.8	13.1	22.5	1.32	13.4
										700	61.1	18.2	14.0	23.0	1.34	13.6
110	2.0	1.3	3.1							610	60.9	16.0	12.4	22.4	1.83	8.7
										700	62.2	16.4	13.2	22.9	1.84	8.9
	3.0	1.9	4.5							610	60.8	16.2	12.4	22.0	1.65	9.8
										700	62.1	16.6	13.2	22.4	1.66	9.9
	4.0	2.6	6.0							610	60.7	16.3	12.5	21.8	1.54	10.5
										700	62.1	16.7	13.3	22.2	1.56	10.7
120	2.0	1.3	3.0							610	61.6	14.6	11.9	22.0	2.13	6.8
										700	62.9	15.0	12.7	22.4	2.15	6.9
	3.0	1.9	4.3							610	61.5	14.8	11.9	21.4	1.92	7.6
										700	62.8	15.1	12.7	21.8	1.94	7.7
	4.0	2.5	5.8							610	61.4	14.9	12.0	21.2	1.80	8.2
										700	62.7	15.2	12.8	21.6	1.82	8.3

Extended Data : ZT030, 2.5 Ton, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	7.5	8.6	19.8	990	91.8	23.3	16.3	2.07	3.29	Operation Not Recommended						
				1130	89.2	23.4	16.7	2.00	3.42							
30	3.8	3.4	7.9	990	91.9	23.4	16.4	2.08	3.29							
				1130	89.3	23.5	16.7	2.01	3.42							
	5.6	5.5	12.7	990	92.8	24.4	17.4	2.10	3.41							
				1130	90.1	24.5	17.7	2.03	3.54							
	7.5	8.2	19.0	990	93.5	25.2	18.1	2.11	3.49							
				1130	90.7	25.3	18.4	2.04	3.62							
40	3.8	2.9	6.7	990	94.3	26.0	18.8	2.14	3.56	950	57.0	37.1	23.4	42.1	1.37	27.1
				1130	91.4	26.2	19.2	2.07	3.69	1090	58.9	38.4	24.6	43.6	1.42	27.0
	5.6	4.8	11.0	990	95.4	27.2	19.9	2.16	3.68	Operation Not Recommended						
				1130	92.4	27.3	20.3	2.09	3.82							
	7.5	7.2	16.5	990	96.2	28.0	20.7	2.17	3.77							
				1130	93.0	28.1	21.0	2.10	3.91							
50	3.8	2.7	6.3	990	97.1	29.0	21.8	2.14	3.96	950	56.7	37.4	23.7	42.9	1.52	24.5
				1130	93.9	29.1	22.1	2.07	4.11	1090	58.6	38.7	24.9	44.4	1.58	24.5
	5.6	4.4	10.2	990	98.3	30.2	23.0	2.16	4.10	950	56.5	37.6	23.8	42.7	1.42	26.4
				1130	94.9	30.4	23.4	2.09	4.26	1090	58.5	38.9	25.1	44.3	1.47	26.4
	7.5	6.7	15.4	990	99.1	31.1	23.8	2.17	4.19	950	56.5	37.8	23.9	42.7	1.36	27.6
				1130	95.6	31.3	24.2	2.10	4.35	1090	58.4	39.1	25.1	44.3	1.41	27.6
60	3.8	2.5	5.9	990	100.6	32.7	25.2	2.23	4.29	950	56.9	36.6	23.5	42.7	1.69	21.6
				1130	96.9	32.9	25.6	2.16	4.46	1090	58.8	37.9	24.7	44.2	1.76	21.5
	5.6	4.2	9.6	990	101.9	34.2	26.6	2.25	4.44	950	56.8	36.8	23.6	42.5	1.58	23.2
				1130	98.1	34.3	27.0	2.18	4.61	1090	58.7	38.1	24.8	44.0	1.64	23.2
	7.5	6.3	14.5	990	102.9	35.2	27.6	2.27	4.55	950	56.7	37.0	23.7	42.5	1.52	24.3
				1130	99.0	35.3	28.0	2.19	4.72	1090	58.6	38.3	24.9	44.0	1.57	24.3
70	3.8	2.4	5.6	990	104.6	37.0	29.2	2.32	4.67	950	57.3	35.4	23.0	42.1	1.89	18.6
				1130	100.5	37.2	29.6	2.24	4.85	1090	59.2	36.7	24.2	43.6	1.96	18.6
	5.6	4.0	9.1	990	106.1	38.6	30.8	2.34	4.84	950	57.2	35.6	23.2	41.9	1.77	20.0
				1130	101.8	38.8	31.2	2.26	5.02	1090	59.1	36.9	24.4	43.4	1.84	20.0
	7.5	5.9	13.7	990	107.2	39.8	31.9	2.35	4.95	950	57.1	35.8	23.2	41.9	1.70	21.0
				1130	102.8	40.0	32.3	2.28	5.14	1090	59.0	37.1	24.4	43.4	1.76	21.0
80	3.8	2.3	5.3	990	108.7	41.4	33.1	2.46	4.92	950	57.8	34.1	22.5	41.6	2.13	16.0
				1130	104.1	41.6	33.6	2.38	5.11	1090	59.7	35.3	23.7	43.1	2.21	15.9
	5.6	3.8	8.7	990	110.4	43.2	34.8	2.48	5.09	950	57.7	34.3	22.7	41.3	1.99	17.2
				1130	105.6	43.4	35.3	2.40	5.29	1090	59.5	35.5	23.8	42.8	2.06	17.2
	7.5	5.7	13.1	990	111.6	44.5	36.1	2.50	5.21	950	57.6	34.5	22.7	41.2	1.91	18.0
				1130	106.6	44.7	36.6	2.42	5.41	1090	59.5	35.7	23.9	42.7	1.98	18.0
90	3.8	2.2	5.1	990	113.0	46.0	37.1	2.64	5.10	950	58.4	32.7	22.0	41.1	2.39	13.6
				1130	107.8	46.2	37.6	2.55	5.30	1090	60.2	33.9	23.1	42.5	2.48	13.6
	5.6	3.6	8.3	990	114.9	48.0	39.0	2.66	5.28	950	58.2	32.9	22.1	40.7	2.23	14.7
				1130	109.5	48.2	39.6	2.57	5.48	1090	60.0	34.1	23.3	42.2	2.32	14.6
	7.5	5.4	12.5	990	116.2	49.4	40.4	2.68	5.40	950	58.2	33.1	22.2	40.6	2.15	15.4
				1130	110.7	49.7	40.9	2.59	5.61	1090	60.0	34.2	23.3	42.1	2.22	15.3
100	3.8	2.0	4.6	Operation Not Recommended						950	59.0	31.2	21.3	40.6	2.69	11.5
										1090	60.8	32.3	22.4	42.0	2.79	11.5
	5.6	3.3	7.7							950	58.9	31.4	21.4	40.2	2.52	12.4
										1090	60.7	32.5	22.5	41.6	2.61	12.4
	7.5	5.1	11.7							950	58.9	31.5	21.5	40.0	2.42	13.0
										1090	60.6	32.7	22.6	41.4	2.51	13.0
110	3.8	2.0	4.5							950	59.9	29.4	20.5	40.0	3.07	9.5
										1090	61.5	30.5	21.5	41.5	3.18	9.5
	5.6	3.2	7.5							950	59.7	29.6	20.6	39.5	2.87	10.3
										1090	61.4	30.6	21.7	40.9	2.97	10.3
	7.5	4.9	11.4							950	59.7	29.7	20.6	39.3	2.75	10.8
										1090	61.4	30.8	21.7	40.7	2.85	10.7
120	3.8	1.9	4.4							950	60.8	27.2	19.5	39.4	3.56	7.6
										1090	62.4	28.1	20.5	40.8	3.69	7.6
	5.6	3.2	7.3							950	60.7	27.3	19.6	38.8	3.33	8.2
										1090	62.3	28.3	20.7	40.2	3.45	8.2
	7.5	4.8	11.1							950	60.6	27.5	19.7	38.5	3.19	8.6
										1090	62.2	28.5	20.7	39.9	3.31	8.5

Extended Data : ZT030, 2.5 Ton, COAX Part Load Performance Data

EWT	Flow	WPD		Part Load Heating						Part Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	5.0	4.9	11.2	740	90.3	16.2	10.8	1.59	2.97	Operation Not Recommended						
				850	87.8	16.3	11.3	1.51	3.17							
30	2.5	2.1	4.9	740	90.1	16.0	10.7	1.60	2.94							
				850	87.6	16.2	11.1	1.51	3.13							
	3.8	3.3	7.7	740	91.3	17.0	11.7	1.59	3.13							
				850	88.7	17.2	12.1	1.50	3.34							
	5.0	4.7	10.7	740	92.1	17.6	12.3	1.59	3.25							
				850	89.4	17.8	12.7	1.50	3.46							
40	2.5	1.8	4.2	740	92.5	18.0	12.5	1.62	3.24	740	57.1	28.1	18.1	31.1	0.80	35.2
				850	89.7	18.1	13.0	1.53	3.46	840	58.6	28.8	19.2	31.8	0.81	35.5
	3.8	2.9	6.7	740	93.9	19.1	13.7	1.61	3.46	Operation Not Recommended						
				850	91.0	19.2	14.1	1.52	3.69							
	5.0	4.0	9.3	740	94.7	19.8	14.3	1.61	3.58							
				850	91.7	19.9	14.8	1.52	3.82							
50	2.5	1.7	3.9	740	95.3	20.2	14.8	1.62	3.65	740	56.8	28.1	18.4	31.6	0.94	29.8
				850	92.2	20.4	15.2	1.53	3.90	840	58.4	28.8	19.4	32.3	0.96	30.0
	3.8	2.7	6.2	740	96.9	21.5	16.1	1.61	3.90	740	56.5	28.6	18.6	31.7	0.85	33.6
				850	93.6	21.7	16.5	1.52	4.16	840	58.1	29.2	19.6	32.4	0.86	33.9
	5.0	3.8	8.7	740	97.8	22.3	16.8	1.61	4.04	740	56.4	28.8	18.7	31.8	0.80	35.8
				850	94.4	22.4	17.3	1.52	4.31	840	58.0	29.4	19.7	32.5	0.82	36.1
60	2.5	1.6	3.7	740	99.0	23.2	17.7	1.62	4.19	740	57.3	27.3	18.0	31.3	1.12	24.4
				850	95.4	23.4	18.2	1.53	4.47	840	58.8	27.9	19.0	32.0	1.13	24.6
	3.8	2.5	5.8	740	100.8	24.6	19.2	1.61	4.47	740	57.0	27.7	18.2	31.4	1.01	27.5
				850	97.0	24.8	19.7	1.52	4.77	840	58.6	28.3	19.2	32.1	1.02	27.7
	5.0	3.5	8.2	740	101.9	25.5	20.1	1.61	4.63	740	56.9	27.9	18.3	31.4	0.95	29.3
				850	98.0	25.7	20.6	1.52	4.94	840	58.5	28.6	19.3	32.1	0.97	29.5
70	2.5	1.5	3.5	740	103.0	26.4	20.9	1.62	4.76	740	57.8	26.3	17.6	31.0	1.32	19.9
				850	99.0	26.6	21.4	1.53	5.08	840	59.3	26.9	18.6	31.7	1.34	20.1
	3.8	2.4	5.5	740	105.1	28.0	22.6	1.61	5.08	740	57.5	26.7	17.8	31.0	1.18	22.5
				850	100.8	28.2	23.1	1.53	5.42	840	59.1	27.3	18.8	31.6	1.20	22.7
	5.0	3.4	7.7	740	106.3	29.0	23.6	1.61	5.26	740	57.4	26.9	17.9	30.9	1.12	23.9
				850	101.9	29.2	24.1	1.52	5.62	840	59.0	27.5	18.9	31.6	1.14	24.1
80	2.5	1.5	3.4	740	106.8	29.4	23.8	1.66	5.18	740	58.1	25.3	17.3	30.7	1.54	16.4
				850	102.3	29.6	24.3	1.57	5.52	840	59.6	25.9	18.3	31.4	1.56	16.5
	3.8	2.3	5.3	740	109.1	31.2	25.6	1.65	5.52	740	57.9	25.7	17.5	30.6	1.39	18.5
				850	104.3	31.5	26.2	1.56	5.89	840	59.4	26.3	18.5	31.3	1.41	18.6
	5.0	3.2	7.4	740	110.4	32.3	26.8	1.65	5.72	740	57.8	25.9	17.6	30.6	1.31	19.7
				850	105.5	32.6	27.3	1.56	6.10	840	59.3	26.5	18.6	31.2	1.33	19.8
90	2.5	1.4	3.2	740	110.5	32.4	26.6	1.71	5.54	740	58.6	24.2	16.9	30.5	1.79	13.5
				850	105.6	32.7	27.2	1.62	5.91	840	60.1	24.7	17.9	31.1	1.82	13.6
	3.8	2.2	5.1	740	113.1	34.4	28.7	1.71	5.91	740	58.3	24.6	17.1	30.2	1.61	15.2
				850	107.8	34.7	29.3	1.61	6.30	840	59.8	25.1	18.1	30.9	1.63	15.3
	5.0	3.1	7.1	740	114.6	35.6	29.9	1.71	6.12	740	58.2	24.7	17.2	30.1	1.52	16.2
				850	109.1	35.9	30.5	1.61	6.53	840	59.7	25.3	18.2	30.8	1.55	16.3
100	2.5	1.3	3.0	Operation Not Recommended						740	59.4	22.7	16.3	29.9	2.07	11.0
										840	60.8	23.3	17.2	30.5	2.10	11.0
	3.8	2.0	4.7							740	59.2	23.1	16.5	29.6	1.86	12.4
										840	60.6	23.6	17.4	30.2	1.89	12.5
	5.0	2.8	6.6							740	59.1	23.3	16.6	29.4	1.76	13.2
										840	60.5	23.8	17.5	30.0	1.79	13.3
110	2.5	1.2	2.9							740	60.5	20.9	15.4	29.0	2.37	8.7
										840	61.8	21.3	16.3	29.6	2.41	8.8
	3.8	2.0	4.6							740	60.3	21.2	15.6	28.6	2.14	9.9
										840	61.6	21.7	16.5	29.2	2.17	9.9
	5.0	2.8	6.4							740	60.2	21.3	15.7	28.3	2.02	10.5
										840	61.5	21.8	16.6	28.9	2.05	10.6
120	2.5	1.2	2.8							740	61.1	18.8	15.0	28.2	2.72	6.9
										840	62.4	19.3	15.8	28.7	2.76	6.9
	3.8	1.9	4.4							740	60.9	19.1	15.2	27.5	2.45	7.8
										840	62.2	19.6	16.0	28.1	2.48	7.8
	5.0	2.7	6.2							740	60.8	19.3	15.2	27.2	2.32	8.3
										840	62.1	19.7	16.1	27.8	2.35	8.3

Extended Data : ZT036, 3 Ton, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	9.0	5.6	12.9	1070	93.4	27.0	19.5	2.24	3.51	Operation Not Recommended						
				1220	90.9	27.5	20.2	2.21	3.65							
30	4.5	2.5	5.8	1070	94.0	27.7	20.0	2.32	3.50							
				1220	91.5	28.2	20.7	2.28	3.63							
	6.8	3.9	8.9	1070	95.0	28.8	21.0	2.35	3.59							
				1220	92.3	29.4	21.7	2.31	3.73							
	9.0	5.4	12.4	1070	95.6	29.5	21.7	2.37	3.65							
				1220	92.9	30.1	22.4	2.33	3.78							
40	4.5	2.2	5.2	1070	97.3	31.5	23.6	2.37	3.89	1070	56.3	42.9	26.3	48.7	1.52	28.1
				1220	94.4	32.1	24.4	2.33	4.03	1220	58.3	43.5	27.5	49.4	1.56	27.7
	6.8	3.4	8.0	1070	98.4	32.7	24.8	2.40	4.00	Operation Not Recommended						
				1220	95.4	33.4	25.6	2.36	4.15							
	9.0	4.8	11.1	1070	99.1	33.6	25.5	2.42	4.05							
				1220	96.1	34.2	26.3	2.38	4.21							
50	4.5	2.1	4.9	1070	100.4	35.0	27.2	2.37	4.33	1070	56.2	42.7	26.4	49.0	1.70	25.0
				1220	97.2	35.7	28.0	2.33	4.49	1220	58.2	43.2	27.6	49.7	1.75	24.7
	6.8	3.2	7.5	1070	101.6	36.5	28.5	2.40	4.45	1070	56.1	43.0	26.6	49.0	1.58	27.1
				1220	98.3	37.2	29.4	2.36	4.62	1220	58.0	43.5	27.8	49.7	1.63	26.7
	9.0	4.5	10.5	1070	102.4	37.4	29.4	2.42	4.52	1070	56.0	43.1	26.6	48.9	1.53	28.2
				1220	99.0	38.1	30.2	2.38	4.68	1220	58.0	43.7	27.9	49.6	1.57	27.8
60	4.5	2.0	4.6	1070	103.8	38.9	30.5	2.54	4.49	1070	56.9	41.1	25.7	48.1	1.90	21.5
				1220	100.2	39.7	31.4	2.49	4.66	1220	58.8	41.6	26.9	48.8	1.96	21.2
	6.8	3.1	7.1	1070	105.1	40.5	32.0	2.57	4.62	1070	56.7	41.4	25.8	48.0	1.77	23.3
				1220	101.4	41.3	32.9	2.52	4.79	1220	58.7	41.9	27.0	48.6	1.82	23.0
	9.0	4.3	9.9	1070	106.0	41.5	32.9	2.60	4.69	1070	56.7	41.5	25.9	47.9	1.71	24.3
				1220	102.2	42.4	33.9	2.55	4.86	1220	58.6	42.0	27.1	48.6	1.75	23.9
70	4.5	1.9	4.4	1070	107.3	43.0	34.1	2.70	4.66	1070	57.5	39.5	25.0	47.3	2.14	18.4
				1220	103.4	43.9	35.1	2.66	4.84	1220	59.4	40.0	26.1	48.0	2.20	18.2
	6.8	2.9	6.8	1070	108.8	44.8	35.7	2.73	4.80	1070	57.4	39.8	25.1	47.1	1.99	19.9
				1220	104.7	45.7	36.8	2.69	4.98	1220	59.3	40.3	26.3	47.8	2.04	19.7
	9.0	4.1	9.5	1070	109.8	45.9	36.8	2.76	4.87	1070	57.3	39.9	25.2	47.0	1.92	20.8
				1220	105.6	46.8	37.8	2.72	5.05	1220	59.2	40.4	26.3	47.6	1.97	20.5
80	4.5	1.8	4.2	1070	110.9	47.1	37.7	2.85	4.85	1070	57.9	38.3	24.5	46.9	2.41	15.9
				1220	106.6	48.1	38.8	2.80	5.03	1220	59.7	38.8	25.7	47.6	2.47	15.6
	6.8	2.8	6.5	1070	112.5	49.0	39.5	2.88	4.99	1070	57.8	38.6	24.7	46.6	2.24	17.2
				1220	108.0	50.0	40.6	2.83	5.17	1220	59.6	39.0	25.8	47.3	2.30	16.9
	9.0	4.0	9.1	1070	113.6	50.3	40.6	2.91	5.06	1070	57.7	38.7	24.7	46.5	2.16	17.9
				1220	109.0	51.3	41.8	2.86	5.25	1220	59.6	39.2	25.9	47.2	2.21	17.6
90	4.5	1.8	4.1	1070	114.6	51.4	41.4	3.02	4.99	1070	58.3	37.0	24.1	46.7	2.70	13.6
				1220	109.9	52.4	42.6	2.96	5.18	1220	60.1	37.5	25.2	47.4	2.78	13.5
	6.8	2.7	6.3	1070	116.4	53.5	43.4	3.05	5.13	1070	58.2	37.3	24.2	46.3	2.52	14.8
				1220	111.5	54.5	44.6	3.00	5.32	1220	60.0	37.8	25.3	47.0	2.59	14.6
	9.0	3.8	8.8	1070	117.6	54.8	44.6	3.08	5.21	1070	58.2	37.4	24.2	46.1	2.42	15.4
				1220	112.6	55.9	45.9	3.03	5.40	1220	60.0	37.9	25.4	46.8	2.49	15.2
100	4.5	1.7	3.8	Operation Not Recommended						1070	59.1	35.4	23.3	46.1	3.04	11.6
										1220	60.8	35.8	24.3	46.8	3.12	11.4
	6.8	2.6	5.9							1070	58.9	35.6	23.4	45.6	2.83	12.5
										1220	60.7	36.1	24.4	46.4	2.91	12.4
	9.0	3.6	8.3							1070	58.9	35.7	23.4	45.4	2.72	13.1
										1220	60.6	36.2	24.5	46.1	2.80	12.9
110	4.5	1.6	3.7							1070	60.1	33.2	22.1	45.2	3.42	9.7
										1220	61.7	33.6	23.1	45.9	3.51	9.5
	6.8	2.5	5.7							1070	60.0	33.4	22.2	44.6	3.18	10.5
										1220	61.6	33.9	23.3	45.3	3.27	10.3
	9.0	3.5	8.1							1070	59.9	33.5	22.3	44.3	3.06	10.9
										1220	61.6	34.0	23.3	45.0	3.15	10.7
120	4.5	1.6	3.6							1070	60.7	31.4	21.4	44.8	3.87	8.1
										1220	62.3	31.8	22.4	45.6	3.97	7.9
	6.8	2.4	5.6							1070	60.6	31.6	21.5	44.2	3.60	8.7
										1220	62.2	32.0	22.5	44.9	3.70	8.6
	9.0	3.4	7.9							1070	60.6	31.7	21.6	43.8	3.47	9.1
										1220	62.2	32.1	22.6	44.5	3.56	9.0

Extended Data : ZT036, 3 Ton, COAX Part Load Performance Data

EWT	Flow	WPD		Part Load Heating						Part Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	6.0	3.3	7.7	810	89.8	17.3	11.5	1.73	2.93	Operation Not Recommended						
				920	87.8	17.7	12.0	1.71	3.04							
30	3.0	1.8	4.1	810	90.3	17.8	11.8	1.77	2.94							
				920	88.3	18.2	12.3	1.74	3.05							
	4.5	2.4	5.5	810	91.2	18.6	12.7	1.75	3.10							
				920	89.1	19.0	13.2	1.73	3.21							
	6.0	3.2	7.4	810	91.7	19.0	13.1	1.74	3.19							
				920	89.5	19.4	13.6	1.72	3.31							
40	3.0	1.6	3.7	810	94.1	21.1	15.2	1.75	3.52	810	57.0	30.6	19.3	34.0	0.86	35.8
				920	91.7	21.6	15.8	1.73	3.65	930	58.7	31.0	20.5	34.4	0.86	36.1
	4.5	2.2	5.0	810	95.2	22.0	16.2	1.74	3.71	Operation Not Recommended						
				920	92.7	22.5	16.8	1.71	3.85							
	6.0	2.9	6.7	810	95.8	22.5	16.7	1.73	3.82							
				920	93.2	23.0	17.3	1.70	3.96							
50	3.0	1.5	3.5	810	97.6	24.2	18.3	1.75	4.03	810	56.8	30.4	19.5	34.3	1.02	29.9
				920	94.8	24.7	18.9	1.73	4.18	930	58.6	30.8	20.7	34.7	1.02	30.1
	4.5	2.1	4.7	810	98.9	25.2	19.4	1.74	4.25	810	56.7	30.7	19.5	34.3	0.93	33.1
				920	96.0	25.8	20.1	1.71	4.41	930	58.5	31.1	20.7	34.7	0.93	33.4
	6.0	2.8	6.4	810	99.5	25.8	20.0	1.73	4.38	810	56.6	31.0	19.7	34.4	0.87	35.4
				920	96.6	26.4	20.7	1.70	4.54	930	58.4	31.4	20.9	34.8	0.88	35.7
60	3.0	1.5	3.4	810	100.8	26.9	21.1	1.74	4.54	810	57.6	29.2	18.9	33.7	1.21	24.1
				920	97.7	27.5	21.8	1.71	4.71	930	59.3	29.6	20.0	34.1	1.22	24.3
	4.5	2.0	4.5	810	102.1	28.1	22.3	1.72	4.78	810	57.5	29.5	18.9	33.6	1.10	26.7
				920	98.9	28.7	23.0	1.69	4.96	930	59.2	29.9	20.1	34.0	1.11	26.9
	6.0	2.7	6.1	810	102.9	28.7	23.0	1.71	4.92	810	57.3	29.8	19.0	33.7	1.04	28.6
				920	99.6	29.4	23.7	1.68	5.11	930	59.1	30.1	20.2	34.1	1.05	28.8
70	3.0	1.4	3.3	810	103.9	29.6	23.7	1.76	4.93	810	58.2	28.0	18.3	33.2	1.43	19.6
				920	100.5	30.3	24.5	1.73	5.12	930	59.8	28.3	19.4	33.6	1.43	19.7
	4.5	1.9	4.4	810	105.4	31.0	25.1	1.74	5.20	810	58.1	28.3	18.4	33.0	1.30	21.7
				920	101.8	31.6	25.9	1.72	5.39	930	59.8	28.6	19.5	33.4	1.31	21.9
	6.0	2.6	5.9	810	106.2	31.7	25.9	1.73	5.35	810	58.0	28.5	18.5	33.1	1.23	23.2
				920	102.6	32.4	26.6	1.71	5.55	930	59.7	28.9	19.6	33.4	1.23	23.4
80	3.0	1.4	3.2	810	107.3	32.6	26.6	1.80	5.32	810	58.6	26.9	18.0	32.9	1.66	16.2
				920	103.5	33.3	27.4	1.77	5.52	930	60.2	27.3	19.1	33.3	1.67	16.3
	4.5	1.8	4.2	810	109.0	34.1	28.1	1.78	5.61	810	58.5	27.2	18.0	32.7	1.51	17.9
				920	105.1	34.8	29.0	1.75	5.82	930	60.2	27.6	19.1	33.1	1.52	18.1
	6.0	2.5	5.7	810	109.8	34.9	28.9	1.77	5.77	810	58.4	27.5	18.1	32.7	1.43	19.2
				920	105.8	35.6	29.8	1.74	5.99	930	60.0	27.8	19.3	33.0	1.44	19.3
90	3.0	1.3	3.1	810	110.8	35.7	29.5	1.84	5.67	810	59.1	25.8	17.6	32.7	1.93	13.4
				920	106.7	36.5	30.4	1.82	5.88	930	60.7	26.2	18.7	33.0	1.94	13.5
	4.5	1.8	4.1	810	112.6	37.3	31.1	1.83	5.97	810	59.0	26.1	17.6	32.4	1.75	14.8
				920	108.3	38.1	32.1	1.80	6.20	930	60.6	26.4	18.7	32.7	1.76	14.9
	6.0	2.4	5.5	810	113.6	38.1	32.0	1.82	6.15	810	58.9	26.3	17.7	32.3	1.66	15.9
				920	109.2	38.9	33.0	1.79	6.38	930	60.5	26.7	18.8	32.7	1.66	16.0
100	3.0	1.3	2.9	Operation Not Recommended						810	59.9	24.4	16.9	32.2	2.22	10.9
										930	61.4	24.7	17.9	32.5	2.23	11.0
	4.5	1.7	3.9							810	59.9	24.6	16.9	31.8	2.02	12.1
										930	61.4	24.9	18.0	32.1	2.03	12.2
	6.0	2.3	5.2							810	59.7	24.8	17.0	31.6	1.91	13.0
										930	61.3	25.2	18.1	32.0	1.92	13.1
110	3.0	1.2	2.8							810	60.9	22.7	16.0	31.6	2.55	8.8
										930	62.4	23.0	17.0	31.9	2.56	8.9
	4.5	1.6	3.8							810	60.9	22.9	16.1	31.0	2.32	9.8
										930	62.3	23.2	17.1	31.4	2.33	9.9
	6.0	2.2	5.1							810	60.8	23.1	16.2	30.8	2.19	10.5
										930	62.2	23.4	17.2	31.1	2.20	10.6
120	3.0	1.2	2.7							810	61.1	21.7	15.9	31.7	2.91	7.4
										930	62.5	21.9	16.9	32.1	2.92	7.5
	4.5	1.6	3.6							810	61.0	21.9	16.0	31.1	2.65	8.2
										930	62.4	22.2	16.9	31.4	2.66	8.3
	6.0	2.1	4.8							810	60.9	22.1	16.1	30.8	2.50	8.8
										930	62.3	22.4	17.1	31.1	2.51	8.9

Extended Data : ZT042, 3.5 Ton, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	10.5	5.6	12.9	1110	96.3	31.6	22.5	2.75	3.37	Operation Not Recommended						
				1270	92.8	31.5	22.7	2.64	3.49							
30	5.3	2.5	5.7	1110	95.8	31.1	22.2	2.69	3.38							
				1270	92.4	30.9	22.4	2.58	3.51							
	7.9	3.8	8.7	1110	97.1	32.7	23.6	2.75	3.49							
				1270	93.6	32.5	23.8	2.63	3.61							
	10.5	5.4	12.4	1110	97.9	33.7	24.4	2.79	3.53							
				1270	94.3	33.5	24.6	2.67	3.66							
40	5.3	2.3	5.2	1110	99.4	35.5	26.1	2.80	3.70	1230	56.5	49.5	30.5	55.8	1.82	27.2
				1270	95.6	35.2	26.3	2.69	3.84	1410	58.1	51.6	32.5	58.1	1.87	27.6
	7.9	3.4	7.9	1110	100.9	37.3	27.7	2.86	3.81	Operation Not Recommended						
				1270	96.9	37.1	27.9	2.75	3.95							
	10.5	4.9	11.3	1110	101.8	38.4	28.7	2.90	3.87							
				1270	97.7	38.1	28.8	2.79	4.01							
50	5.3	2.1	4.9	1110	103.4	40.3	30.9	2.80	4.21	1230	55.9	49.9	31.2	56.9	2.04	24.4
				1270	99.1	40.1	31.1	2.69	4.36	1410	57.6	52.0	33.3	59.2	2.10	24.8
	7.9	3.2	7.5	1110	105.2	42.4	32.8	2.86	4.33	1230	55.7	50.2	31.4	56.9	1.91	26.2
				1270	100.5	42.1	32.9	2.75	4.49	1410	57.4	52.4	33.5	59.2	1.97	26.6
	10.5	4.6	10.7	1110	106.2	43.6	33.9	2.90	4.39	1230	55.6	50.5	31.6	56.9	1.84	27.4
				1270	101.4	43.3	34.0	2.79	4.55	1410	57.3	52.7	33.7	59.3	1.89	27.8
60	5.3	2.0	4.7	1110	107.6	45.3	34.8	3.15	4.21	1230	56.1	48.7	30.9	56.5	2.27	21.4
				1270	102.7	45.1	35.0	3.02	4.36	1410	57.8	50.8	33.0	58.8	2.34	21.7
	7.9	3.1	7.1	1110	109.6	47.7	36.9	3.22	4.34	1230	56.0	49.1	31.1	56.4	2.13	23.0
				1270	104.4	47.4	37.1	3.09	4.49	1410	57.7	51.2	33.2	58.8	2.19	23.3
	10.5	4.4	10.2	1110	110.7	49.0	38.1	3.26	4.40	1230	55.9	49.4	31.2	56.5	2.06	24.0
				1270	105.4	48.7	38.3	3.13	4.56	1410	57.6	51.5	33.3	58.8	2.11	24.3
70	5.3	1.9	4.5	1110	111.8	50.4	39.2	3.35	4.39	1230	56.7	47.1	30.2	55.7	2.54	18.5
				1270	106.3	50.1	39.3	3.22	4.55	1410	58.3	49.1	32.2	58.0	2.61	18.8
	7.9	2.9	6.8	1110	113.9	52.9	41.5	3.42	4.53	1230	56.5	47.5	30.4	55.6	2.38	19.9
				1270	108.2	52.6	41.6	3.29	4.69	1410	58.2	49.5	32.4	57.9	2.45	20.2
	10.5	4.2	9.7	1110	115.2	54.5	42.9	3.47	4.59	1230	56.4	47.7	30.5	55.6	2.29	20.8
				1270	109.3	54.2	43.0	3.33	4.76	1410	58.1	49.8	32.6	57.8	2.36	21.1
80	5.3	1.9	4.3	1110	115.9	55.3	43.4	3.56	4.54	1230	57.3	45.4	29.5	55.0	2.83	16.0
				1270	109.9	54.9	43.5	3.42	4.71	1410	58.8	47.3	31.4	57.2	2.91	16.2
	7.9	2.8	6.5	1110	118.2	58.1	45.9	3.63	4.68	1230	57.1	45.8	29.7	54.8	2.66	17.2
				1270	111.9	57.7	46.1	3.49	4.85	1410	58.7	47.7	31.6	57.0	2.73	17.4
	10.5	4.0	9.3	1110	119.6	59.8	47.4	3.69	4.75	1230	57.0	46.0	29.8	54.7	2.56	17.9
				1270	113.1	59.4	47.6	3.54	4.92	1410	58.6	48.0	31.8	56.9	2.63	18.2
90	5.3	1.8	4.1	1110	119.8	60.0	47.4	3.76	4.67	1230	57.9	43.7	28.7	54.3	3.17	13.7
				1270	113.3	59.6	47.6	3.60	4.84	1410	59.4	45.5	30.6	56.5	3.25	13.9
	7.9	2.7	6.3	1110	122.3	63.1	50.2	3.83	4.81	1230	57.7	44.0	28.9	54.0	2.97	14.8
				1270	115.5	62.7	50.4	3.68	4.99	1410	59.3	45.9	30.8	56.2	3.05	15.0
	10.5	3.9	9.0	1110	123.9	64.9	51.9	3.89	4.88	1230	57.6	44.3	29.0	53.9	2.86	15.4
				1270	116.8	64.5	52.0	3.73	5.06	1410	59.2	46.1	30.9	56.1	2.94	15.6
100	5.3	1.7	4.0	Operation Not Recommended						1230	58.5	41.8	27.8	53.7	3.55	11.7
										1410	60.0	43.5	29.7	55.8	3.65	11.9
	7.9	2.6	6.0							1230	58.4	42.1	28.0	53.3	3.33	12.6
										1410	59.9	43.9	29.9	55.4	3.42	12.8
	10.5	3.7	8.5							1230	58.3	42.3	28.1	53.1	3.21	13.1
										1410	59.8	44.1	30.0	55.2	3.30	13.3
110	5.3	1.7	3.9							1230	59.3	39.6	26.8	52.9	4.00	9.9
										1410	60.7	41.3	28.6	55.0	4.11	10.0
	7.9	2.5	5.8							1230	59.2	39.9	27.0	52.4	3.75	10.6
										1410	60.6	41.6	28.8	54.5	3.85	10.7
	10.5	3.6	8.3							1230	59.1	40.1	27.1	52.2	3.61	11.1
										1410	60.5	41.8	28.9	54.2	3.71	11.2
120	5.3	1.6	3.8							1230	60.0	37.2	25.9	52.2	4.52	8.2
										1410	61.4	38.8	27.6	54.2	4.64	8.3
	7.9	2.5	5.7							1230	59.9	37.5	26.1	51.6	4.24	8.8
										1410	61.3	39.1	27.8	53.6	4.35	8.9
	10.5	3.5	8.1							1230	59.8	37.7	26.2	51.3	4.08	9.2
										1410	61.2	39.3	27.9	53.3	4.20	9.3

Extended Data : ZT042, 3.5 Ton, COAX Part Load Performance Data

EWT	Flow	WPD		Part Load Heating						Part Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	7.0	3.3	7.5	910	92.0	21.6	14.9	2.05	3.08	Operation Not Recommended						
				1040	89.2	21.6	15.1	1.97	3.21							
30	3.5	1.7	4.0	910	92.0	21.6	15.0	2.02	3.12							
				1040	89.2	21.5	15.2	1.94	3.25							
	5.3	2.4	5.6	910	93.2	22.8	16.1	2.04	3.26							
				1040	90.2	22.7	16.3	1.96	3.39							
	7.0	3.2	7.4	910	93.8	23.4	16.7	2.06	3.34							
				1040	90.8	23.4	16.9	1.97	3.47							
40	3.5	1.6	3.8	910	95.2	24.8	18.1	2.04	3.55	1090	57.8	38.9	25.5	42.9	1.13	34.5
				1040	92.0	24.7	18.3	1.96	3.70	1250	59.3	40.7	27.2	44.8	1.16	35.1
	5.3	2.2	5.1	910	96.6	26.1	19.4	2.06	3.71	Operation Not Recommended						
				1040	93.2	26.1	19.6	1.98	3.86							
	7.0	2.9	6.8	910	97.4	26.9	20.1	2.07	3.80							
				1040	93.9	26.8	20.3	1.99	3.95							
50	3.5	1.6	3.6	910	98.7	28.2	21.5	2.04	4.04	1090	57.3	38.7	26.0	43.3	1.31	29.4
				1040	95.0	28.1	21.7	1.96	4.21	1250	58.9	40.5	27.8	45.2	1.35	29.9
	5.3	2.1	4.9	910	100.3	29.7	23.0	2.06	4.22	1090	57.1	39.2	26.3	43.3	1.18	33.0
				1040	96.4	29.7	23.2	1.98	4.39	1250	58.7	41.0	28.0	45.3	1.22	33.5
	7.0	2.8	6.4	910	101.1	30.6	23.8	2.07	4.32	1090	57.1	39.5	26.3	43.5	1.12	35.2
				1040	97.2	30.5	24.0	1.99	4.49	1250	58.7	41.3	28.1	45.4	1.16	35.7
60	3.5	1.5	3.4	910	102.4	31.9	24.8	2.16	4.32	1090	57.9	37.3	25.4	42.6	1.54	24.1
				1040	98.3	31.8	25.0	2.07	4.49	1250	59.4	39.0	27.1	44.4	1.59	24.5
	5.3	2.0	4.7	910	104.3	33.7	26.5	2.18	4.51	1090	57.7	37.7	25.7	42.6	1.39	27.1
				1040	99.9	33.6	26.7	2.09	4.69	1250	59.2	39.4	27.4	44.4	1.43	27.5
	7.0	2.7	6.2	910	105.2	34.6	27.5	2.20	4.62	1090	57.6	38.1	25.7	42.7	1.32	28.8
				1040	100.7	34.5	27.6	2.11	4.80	1250	59.1	39.8	27.4	44.5	1.36	29.3
70	3.5	1.4	3.3	910	106.3	35.7	28.4	2.23	4.68	1090	58.5	35.7	24.7	41.8	1.80	19.8
				1040	101.7	35.6	28.6	2.14	4.86	1250	60.0	37.3	26.3	43.6	1.85	20.1
	5.3	2.0	4.5	910	108.3	37.7	30.3	2.26	4.88	1090	58.3	36.1	24.9	41.7	1.62	22.2
				1040	103.4	37.6	30.5	2.16	5.08	1250	59.8	37.8	26.6	43.5	1.67	22.5
	7.0	2.6	6.0	910	109.4	38.7	31.3	2.27	4.99	1090	58.2	36.4	25.0	41.8	1.54	23.6
				1040	104.4	38.6	31.5	2.18	5.19	1250	59.7	38.1	26.7	43.6	1.59	24.0
80	3.5	1.4	3.2	910	110.0	39.3	31.9	2.29	5.03	1090	59.0	34.1	24.1	41.2	2.09	16.3
				1040	104.9	39.2	32.1	2.20	5.23	1250	60.5	35.7	25.7	43.0	2.15	16.5
	5.3	1.9	4.4	910	112.3	41.5	34.0	2.32	5.25	1090	58.8	34.6	24.3	41.0	1.88	18.3
				1040	106.9	41.4	34.2	2.22	5.46	1250	60.3	36.1	26.0	42.7	1.94	18.6
	7.0	2.5	5.8	910	113.5	42.7	35.1	2.33	5.37	1090	58.8	34.9	24.4	41.0	1.79	19.5
				1040	107.9	42.6	35.3	2.23	5.58	1250	60.2	36.5	26.0	42.7	1.84	19.8
90	3.5	1.3	3.1	910	113.7	43.0	35.3	2.34	5.38	1090	59.6	32.5	23.5	40.6	2.41	13.5
				1040	108.1	42.8	35.5	2.24	5.60	1250	61.0	34.0	25.0	42.3	2.48	13.7
	5.3	1.8	4.2	910	116.2	45.4	37.7	2.36	5.62	1090	59.4	32.9	23.7	40.2	2.17	15.1
				1040	110.3	45.2	37.8	2.27	5.85	1250	60.8	34.4	25.3	41.9	2.24	15.3
	7.0	2.4	5.6	910	117.5	46.7	38.9	2.38	5.75	1090	59.3	33.2	23.7	40.2	2.06	16.1
				1040	111.4	46.5	39.1	2.28	5.98	1250	60.7	34.7	25.3	41.9	2.12	16.3
100	3.5	1.3	3.0	Operation Not Recommended						1090	60.3	30.4	22.6	39.7	2.75	11.0
										1250	61.7	31.8	24.1	41.3	2.84	11.2
	5.3	1.8	4.1							1090	60.1	30.8	22.8	39.2	2.48	12.4
										1250	61.5	32.2	24.3	40.8	2.56	12.5
	7.0	2.3	5.3							1090	60.1	31.1	22.9	39.0	2.35	13.2
										1250	61.5	32.5	24.4	40.7	2.42	13.4
110	3.5	1.3	2.9							1090	61.3	28.0	21.4	38.4	3.14	8.9
										1250	62.6	29.2	22.9	40.0	3.23	9.0
	5.3	1.7	4.0							1090	61.1	28.3	21.7	37.7	2.83	10.0
										1250	62.4	29.6	23.1	39.3	2.91	10.1
	7.0	2.2	5.2							1090	61.1	28.6	21.7	37.5	2.68	10.6
										1250	62.4	29.9	23.2	39.1	2.76	10.8
120	3.5	1.2	2.9							1090	62.0	25.7	20.6	37.4	3.55	7.2
										1250	63.3	26.8	22.0	39.0	3.66	7.3
	5.3	1.7	3.8							1090	61.9	26.0	20.8	36.6	3.21	8.0
										1250	63.1	27.1	22.2	38.1	3.30	8.2
	7.0	2.2	5.0							1090	61.8	26.2	20.9	36.3	3.04	8.6
										1250	63.1	27.4	22.3	37.8	3.13	8.7

Extended Data : ZT048, 4 Ton, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	12.0	8.7	20.1	1340	93.5	33.7	24.3	2.91	3.39	Operation Not Recommended						
				1530	90.9	34.1	24.9	2.85	3.50							
30	6.0	3.5	8.0	1340	93.7	33.9	24.5	2.90	3.43							
				1530	91.0	34.3	25.1	2.84	3.53							
	9.0	5.8	13.3	1340	94.6	35.2	25.7	2.94	3.50							
				1530	91.8	35.6	26.3	2.89	3.61							
	12.0	8.4	19.3	1340	95.5	36.5	26.8	3.00	3.57							
				1530	92.6	37.0	27.5	2.94	3.68							
40	6.0	3.1	7.0	1340	97.0	38.6	28.9	3.00	3.77	1490	56.4	57.3	36.3	65.3	2.12	27.0
				1530	93.9	39.1	29.6	2.94	3.89	1700	58.4	58.4	37.9	66.7	2.23	26.2
	9.0	5.0	11.6	1340	98.0	40.1	30.3	3.04	3.85	Operation Not Recommended						
				1530	94.8	40.6	30.9	2.99	3.98							
	12.0	7.4	17.1	1340	99.0	41.6	31.6	3.10	3.93							
				1530	95.7	42.1	32.3	3.04	4.05							
50	6.0	2.8	6.6	1340	100.5	43.6	34.0	3.00	4.27	1490	56.6	55.9	35.9	64.6	2.33	23.9
				1530	97.0	44.2	34.8	2.94	4.40	1700	58.6	56.9	37.5	66.0	2.45	23.2
	9.0	4.7	10.8	1340	101.6	45.3	35.5	3.04	4.36	1490	56.5	56.2	36.1	64.4	2.21	25.4
				1530	98.0	45.9	36.3	2.99	4.50	1700	58.5	57.2	37.7	65.9	2.32	24.6
	12.0	6.9	15.9	1340	102.8	47.0	37.0	3.10	4.44	1490	56.5	56.4	36.1	64.5	2.14	26.4
				1530	99.1	47.6	37.8	3.04	4.58	1700	58.5	57.5	37.7	65.9	2.24	25.6
60	6.0	2.7	6.2	1340	104.3	49.2	38.6	3.28	4.38	1490	57.0	54.5	35.3	64.0	2.57	21.2
				1530	100.4	49.8	39.5	3.22	4.52	1700	59.0	55.5	36.9	65.4	2.70	20.5
	9.0	4.4	10.2	1340	105.6	51.0	40.3	3.34	4.48	1490	56.9	54.8	35.5	63.8	2.43	22.5
				1530	101.6	51.7	41.2	3.28	4.62	1700	58.9	55.8	37.1	65.2	2.55	21.8
	12.0	6.5	14.9	1340	106.9	52.9	42.0	3.39	4.56	1490	56.9	55.0	35.5	63.8	2.35	23.4
				1530	102.8	53.6	42.9	3.33	4.71	1700	58.8	56.1	37.1	65.2	2.47	22.7
70	6.0	2.5	5.8	1340	108.2	54.7	43.6	3.48	4.60	1490	57.5	52.7	34.6	63.1	2.83	18.6
				1530	103.9	55.4	44.5	3.42	4.75	1700	59.4	53.7	36.1	64.6	2.98	18.0
	9.0	4.2	9.6	1340	109.7	56.8	45.5	3.54	4.70	1490	57.4	53.0	34.7	62.8	2.68	19.7
				1530	105.2	57.5	46.4	3.47	4.85	1700	59.3	54.0	36.3	64.3	2.81	19.2
	12.0	6.1	14.1	1340	111.1	58.9	47.4	3.60	4.79	1490	57.4	53.3	34.8	62.8	2.59	20.5
				1530	106.5	59.6	48.4	3.53	4.94	1700	59.3	54.3	36.3	64.2	2.72	19.9
80	6.0	2.4	5.6	1340	111.8	59.9	48.2	3.67	4.78	1490	58.1	50.6	33.7	61.9	3.14	16.1
				1530	107.1	60.7	49.2	3.60	4.93	1700	59.9	51.6	35.2	63.4	3.30	15.6
	9.0	4.0	9.2	1340	113.4	62.2	50.3	3.73	4.88	1490	58.0	50.9	33.9	61.6	2.97	17.1
				1530	108.5	63.0	51.3	3.66	5.04	1700	59.8	51.8	35.4	63.1	3.12	16.6
	12.0	5.8	13.5	1340	115.0	64.5	52.4	3.79	4.98	1490	57.9	51.1	33.9	61.5	2.87	17.7
				1530	109.9	65.3	53.4	3.72	5.14	1700	59.8	52.1	35.4	63.0	3.02	17.2
90	6.0	2.3	5.3	1340	115.4	65.0	52.7	3.86	4.93	1490	58.7	48.3	32.8	60.8	3.49	13.8
				1530	110.2	65.8	53.7	3.79	5.08	1700	60.5	49.3	34.3	62.3	3.67	13.4
	9.0	3.8	8.8	1340	117.1	67.5	55.0	3.92	5.03	1490	58.6	48.6	33.0	60.4	3.30	14.7
				1530	111.8	68.3	56.1	3.85	5.19	1700	60.4	49.5	34.4	61.9	3.47	14.2
	12.0	5.6	12.9	1340	118.8	70.0	57.2	3.99	5.13	1490	58.5	48.8	33.0	60.3	3.19	15.2
				1530	113.3	70.8	58.4	3.92	5.29	1700	60.3	49.7	34.5	61.8	3.35	14.8
100	6.0	2.1	4.9	Operation Not Recommended						1490	59.3	46.1	31.9	59.9	3.89	11.8
										1700	61.0	47.0	33.3	61.4	4.08	11.5
	9.0	3.5	8.1							1490	59.2	46.4	32.0	59.4	3.67	12.6
										1700	60.9	47.3	33.4	61.0	3.86	12.2
	12.0	5.2	12.1							1490	59.2	46.6	32.0	59.2	3.55	13.1
										1700	60.9	47.5	33.5	60.7	3.73	12.7
110	6.0	2.1	4.8							1490	60.0	44.0	30.8	59.2	4.34	10.1
										1700	61.6	44.8	32.2	60.8	4.56	9.8
	9.0	3.4	7.9							1490	59.9	44.2	30.9	58.7	4.10	10.7
										1700	61.6	45.0	32.3	60.2	4.31	10.4
	12.0	5.1	11.7							1490	59.8	44.4	31.0	58.4	3.97	11.1
										1700	61.6	45.2	32.4	59.9	4.17	10.8
120	6.0	2.0	4.6							1490	60.8	41.2	29.6	58.3	4.88	8.4
										1700	62.4	42.0	30.9	59.9	5.13	8.1
	9.0	3.3	7.7							1490	60.7	41.4	29.7	57.6	4.62	8.9
										1700	62.3	42.2	31.0	59.2	4.85	8.7
	12.0	4.9	11.4							1490	60.7	41.6	29.7	57.3	4.46	9.3
										1700	62.3	42.4	31.1	58.8	4.69	9.0

Extended Data : ZT048, 4 Ton, COAX Part Load Performance Data

EWT	Flow	WPD		Part Load Heating						Part Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	8.0	4.9	11.4	1070	90.1	23.4	15.9	2.18	3.14	Operation Not Recommended						
				1220	88.1	24.2	16.7	2.15	3.29							
30	4.0	2.2	5.1	1070	90.0	23.4	15.8	2.17	3.15							
				1220	88.1	24.1	16.7	2.14	3.30							
	6.0	3.4	7.9	1070	91.0	24.5	16.9	2.19	3.28							
				1220	89.0	25.3	17.8	2.15	3.44							
	8.0	4.8	11.0	1070	91.7	25.4	17.7	2.20	3.37							
				1220	89.6	26.1	18.6	2.17	3.53							
40	4.0	2.0	4.7	1070	93.0	26.8	19.3	2.16	3.64	1300	58.7	42.5	28.6	47.3	1.25	34.0
				1220	90.8	27.7	20.2	2.12	3.81	1490	60.0	44.0	30.7	49.0	1.30	33.7
	6.0	3.1	7.0	1070	94.1	28.2	20.6	2.18	3.79	Operation Not Recommended						
				1220	91.8	29.0	21.6	2.14	3.97							
	8.0	4.3	9.8	1070	95.0	29.1	21.5	2.19	3.89							
				1220	92.5	30.0	22.5	2.15	4.08							
50	4.0	1.9	4.4	1070	96.1	30.4	22.9	2.16	4.12	1300	58.9	41.4	28.3	46.8	1.44	28.7
				1220	93.6	31.4	23.9	2.12	4.32	1490	60.2	42.9	30.5	48.6	1.50	28.5
	6.0	2.9	6.6	1070	97.4	32.0	24.3	2.18	4.30	1300	58.8	42.0	28.5	47.1	1.32	31.9
				1220	94.7	32.9	25.4	2.14	4.51	1490	60.1	43.5	30.6	48.8	1.38	31.6
	8.0	4.0	9.2	1070	98.3	33.0	25.3	2.19	4.41	1300	58.7	42.4	28.6	47.2	1.25	33.8
				1220	95.6	34.0	26.5	2.15	4.63	1490	60.0	43.9	30.7	48.9	1.31	33.5
60	4.0	1.8	4.1	1070	99.3	34.2	26.5	2.21	4.54	1300	59.2	40.0	27.9	46.3	1.67	23.9
				1220	96.5	35.3	27.6	2.17	4.76	1490	60.5	41.5	30.1	48.0	1.74	23.7
	6.0	2.7	6.3	1070	100.8	35.9	28.1	2.23	4.73	1300	59.1	40.7	28.1	46.4	1.53	26.6
				1220	97.8	37.0	29.3	2.19	4.96	1490	60.3	42.1	30.2	48.1	1.60	26.4
	8.0	3.8	8.7	1070	101.8	37.1	29.2	2.24	4.85	1300	59.0	41.0	28.2	46.5	1.45	28.2
				1220	98.7	38.3	30.5	2.20	5.09	1490	60.3	42.5	30.3	48.2	1.52	27.9
70	4.0	1.7	3.9	1070	102.6	38.1	30.1	2.26	4.93	1300	59.6	38.5	27.4	45.6	1.93	19.9
				1220	99.5	39.3	31.4	2.22	5.17	1490	60.8	39.9	29.5	47.3	2.02	19.7
	6.0	2.6	5.9	1070	104.3	40.0	31.9	2.28	5.13	1300	59.5	39.1	27.5	45.7	1.77	22.1
				1220	101.0	41.2	33.3	2.24	5.38	1490	60.7	40.5	29.6	47.4	1.85	21.9
	8.0	3.6	8.3	1070	105.4	41.3	33.2	2.30	5.27	1300	59.4	39.4	27.6	45.7	1.68	23.4
				1220	102.0	42.6	34.6	2.26	5.53	1490	60.7	40.9	29.7	47.4	1.76	23.2
80	4.0	1.6	3.7	1070	106.0	42.0	33.8	2.30	5.35	1300	60.1	36.9	26.7	44.9	2.23	16.5
				1220	102.5	43.2	35.2	2.26	5.61	1490	61.3	38.2	28.7	46.6	2.33	16.4
	6.0	2.4	5.6	1070	107.8	44.1	35.8	2.32	5.57	1300	60.0	37.4	26.9	44.9	2.04	18.3
				1220	104.1	45.4	37.3	2.28	5.84	1490	61.2	38.8	28.9	46.5	2.13	18.2
	8.0	3.4	7.9	1070	109.0	45.5	37.2	2.33	5.72	1300	59.9	37.7	26.9	44.8	1.94	19.4
				1220	105.3	46.9	38.7	2.29	6.00	1490	61.1	39.1	29.0	46.5	2.03	19.2
90	4.0	1.5	3.6	1070	109.3	45.9	37.5	2.33	5.75	1300	60.7	34.9	25.9	44.0	2.55	13.6
				1220	105.5	47.2	39.1	2.29	6.03	1490	61.9	36.2	27.9	45.7	2.67	13.5
	6.0	2.3	5.4	1070	111.2	48.1	39.8	2.35	5.99	1300	60.6	35.5	26.0	43.8	2.34	15.1
				1220	107.3	49.6	41.3	2.31	6.29	1490	61.8	36.7	28.0	45.5	2.44	15.0
	8.0	3.2	7.5	1070	112.6	49.7	41.3	2.37	6.16	1300	60.5	35.7	26.1	43.8	2.22	16.0
				1220	108.5	51.2	42.9	2.32	6.46	1490	61.7	37.0	28.1	45.4	2.32	15.9
100	4.0	1.5	3.4	Operation Not Recommended						1300	61.4	32.6	25.0	42.9	2.91	11.1
										1490	62.5	33.7	26.9	44.5	3.04	11.0
	6.0	2.2	5.0							1300	61.3	33.1	25.1	42.5	2.66	12.4
										1490	62.4	34.3	27.0	44.1	2.78	12.3
	8.0	3.0	7.0							1300	61.2	33.3	25.2	42.4	2.53	13.1
										1490	62.4	34.5	27.1	44.0	2.65	13.0
110	4.0	1.4	3.3							1300	62.2	29.8	23.9	41.3	3.30	9.0
										1490	63.3	30.9	25.7	42.9	3.45	8.9
	6.0	2.1	4.9							1300	62.1	30.3	24.0	40.9	3.02	10.0
										1490	63.2	31.3	25.9	42.4	3.16	9.9
	8.0	2.9	6.8							1300	62.0	30.5	24.1	40.6	2.87	10.6
										1490	63.1	31.6	25.9	42.2	3.00	10.5
120	4.0	1.4	3.2							1300	63.0	26.7	22.8	39.6	3.73	7.1
										1490	64.1	27.6	24.5	41.1	3.90	7.0
	6.0	2.0	4.7							1300	62.9	27.1	22.9	39.0	3.41	7.9
										1490	64.0	28.0	24.6	40.5	3.57	7.8
	8.0	2.9	6.6							1300	62.9	27.3	23.0	38.6	3.25	8.3
										1490	63.9	28.3	24.7	40.1	3.40	8.3

Extended Data : ZT060, 5 Ton, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	15.0	12.1	28.0	1780	93.3	44.8	32.2	3.77	3.48	Operation Not Recommended						
				2030	90.6	45.0	32.7	3.71	3.55							
30	7.5	4.7	10.8	1780	93.8	45.5	33.0	3.78	3.53							
				2030	90.9	45.8	33.4	3.72	3.60							
	11.3	7.9	18.2	1780	94.9	47.7	34.9	3.85	3.62							
				2030	91.9	47.9	35.3	3.79	3.70							
	15.0	11.6	26.8	1780	95.4	48.8	35.9	3.89	3.67							
				2030	92.4	49.0	36.3	3.83	3.75							
40	7.5	4.1	9.4	1780	97.7	53.0	39.9	3.95	3.93	1660	56.5	68.0	41.8	78.0	2.67	25.4
				2030	94.4	53.3	40.4	3.89	4.01	1900	58.2	69.7	44.2	80.1	2.78	25.0
	11.3	6.9	15.9	1780	98.9	55.5	42.1	4.03	4.04	Operation Not Recommended						
				2030	95.5	55.8	42.6	3.96	4.12							
	15.0	10.2	23.6	1780	99.6	56.8	43.3	4.07	4.09							
				2030	96.1	57.1	43.8	4.00	4.18							
50	7.5	3.8	8.7	1780	101.5	60.3	47.2	3.95	4.47	1660	55.5	69.7	43.5	80.7	2.97	23.4
				2030	97.7	60.6	47.7	3.89	4.57	1900	57.3	71.4	46.1	82.9	3.10	23.0
	11.3	6.4	14.8	1780	102.9	63.1	49.8	4.03	4.59	1660	55.4	70.4	43.7	81.0	2.81	25.0
				2030	99.0	63.4	50.3	3.96	4.69	1900	57.2	72.2	46.3	83.1	2.93	24.6
	15.0	9.5	22.0	1780	103.7	64.6	51.1	4.07	4.65	1660	55.2	71.1	44.0	81.3	2.73	26.0
				2030	99.7	64.9	51.7	4.00	4.75	1900	57.1	72.8	46.6	83.5	2.84	25.6
60	7.5	3.5	8.2	1780	105.1	67.4	53.1	4.32	4.57	1660	55.3	69.0	43.8	81.1	3.27	21.0
				2030	101.0	67.8	53.7	4.25	4.67	1900	57.1	70.7	46.4	83.2	3.41	20.7
	11.3	6.0	13.8	1780	106.8	70.5	56.0	4.40	4.70	1660	55.2	69.8	44.0	81.2	3.10	22.5
				2030	102.4	70.9	56.6	4.33	4.79	1900	57.1	71.5	46.6	83.4	3.23	22.1
	15.0	8.9	20.6	1780	107.7	72.2	57.5	4.44	4.76	1660	55.0	70.4	44.3	81.6	3.00	23.4
				2030	103.2	72.6	58.1	4.37	4.86	1900	56.9	72.1	46.9	83.7	3.13	23.0
70	7.5	3.3	7.7	1780	108.8	74.4	59.4	4.55	4.79	1660	55.6	67.0	43.4	80.1	3.60	18.6
				2030	104.2	74.8	60.0	4.48	4.89	1900	57.4	68.7	45.9	82.3	3.75	18.3
	11.3	5.6	13.0	1780	110.6	77.9	62.5	4.63	4.92	1660	55.5	67.7	43.5	80.2	3.41	19.8
				2030	105.8	78.3	63.2	4.56	5.02	1900	57.3	69.4	46.1	82.3	3.55	19.5
	15.0	8.4	19.4	1780	111.6	79.7	64.2	4.68	4.99	1660	55.3	68.4	43.8	80.5	3.30	20.7
				2030	106.6	80.1	64.9	4.61	5.09	1900	57.2	70.0	46.4	82.6	3.44	20.3
80	7.5	3.2	7.3	1780	112.5	81.5	65.6	4.78	4.99	1660	56.1	64.4	42.5	78.6	3.96	16.2
				2030	107.4	81.9	66.3	4.71	5.09	1900	57.8	65.9	45.0	80.8	4.13	15.9
	11.3	5.3	12.3	1780	114.5	85.3	69.1	4.88	5.12	1660	56.0	65.1	42.6	78.6	3.75	17.3
				2030	109.2	85.7	69.8	4.80	5.23	1900	57.8	66.6	45.2	80.8	3.91	17.0
	15.0	7.9	18.3	1780	115.5	87.3	71.0	4.93	5.19	1660	55.8	65.7	42.9	78.9	3.64	18.0
				2030	110.1	87.7	71.7	4.85	5.30	1900	57.6	67.3	45.5	81.0	3.79	17.7
90	7.5	3.0	6.9	1780	116.2	88.5	71.9	5.04	5.15	1660	56.7	61.4	41.4	77.1	4.38	14.0
				2030	110.7	89.0	72.6	4.96	5.25	1900	58.4	62.9	43.9	79.2	4.57	13.7
	11.3	5.1	11.7	1780	118.3	92.7	75.7	5.14	5.28	1660	56.6	62.1	41.6	77.0	4.15	14.9
				2030	112.6	93.1	76.4	5.06	5.40	1900	58.3	63.6	44.0	79.1	4.33	14.6
	15.0	7.5	17.4	1780	119.5	94.9	77.7	5.19	5.35	1660	56.4	62.7	41.8	77.1	4.02	15.5
				2030	113.6	95.3	78.5	5.11	5.47	1900	58.2	64.2	44.3	79.2	4.19	15.3
100	7.5	2.7	6.3	Operation Not Recommended						1660	57.4	58.3	40.2	75.6	4.88	11.9
										1900	59.0	59.8	42.6	77.7	5.08	11.7
	11.3	4.7	10.7							1660	57.3	59.0	40.3	75.4	4.62	12.7
										1900	59.0	60.4	42.7	77.5	4.81	12.5
	15.0	7.0	16.1							1660	57.1	59.5	40.6	75.4	4.48	13.2
										1900	58.8	61.0	43.0	77.5	4.66	13.0
110	7.5	2.6	6.1							1660	58.2	55.1	38.7	74.2	5.45	10.1
										1900	59.8	56.4	41.0	76.3	5.68	9.9
	11.3	4.5	10.4							1660	58.1	55.7	38.9	73.8	5.16	10.7
										1900	59.7	57.0	41.2	75.9	5.38	10.5
	15.0	6.8	15.6							1660	57.9	56.2	39.1	73.8	5.00	11.2
										1900	59.6	57.5	41.5	75.9	5.21	11.0
120	7.5	2.6	6.0							1660	59.1	51.5	37.0	72.8	6.11	8.4
										1900	60.7	52.7	39.2	74.9	6.37	8.2
	11.3	4.4	10.2							1660	59.1	52.0	37.2	72.2	5.79	8.9
										1900	60.6	53.3	39.4	74.3	6.03	8.8
	15.0	6.6	15.3							1660	58.9	52.5	37.4	72.1	5.61	9.3
										1900	60.5	53.8	39.6	74.2	5.84	9.2

Extended Data : ZT060, 5 Ton, COAX Part Load Performance Data

EWT	Flow	WPD		Part Load Heating						Part Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	10.0	6.9	15.8	1420	89.5	29.9	20.4	2.82	3.10	Operation Not Recommended						
				1620	87.4	30.5	21.2	2.78	3.21							
30	5.0	3.0	7.0	1420	89.4	29.8	20.4	2.79	3.13							
				1620	87.4	30.4	21.2	2.74	3.24							
	7.5	4.6	10.7	1420	90.4	31.4	21.9	2.81	3.27							
				1620	88.3	32.0	22.7	2.77	3.39							
	10.0	6.6	15.2	1420	91.1	32.3	22.9	2.83	3.35							
				1620	88.9	33.0	23.7	2.78	3.47							
40	5.0	2.6	6.0	1420	93.1	35.4	26.2	2.76	3.75	1340	56.5	51.5	33.7	57.3	1.50	34.2
				1620	90.7	36.2	27.0	2.72	3.89	1530	57.9	53.4	36.1	59.3	1.53	34.7
	7.5	4.1	9.4	1420	94.3	37.3	28.0	2.78	3.92	Operation Not Recommended						
				1620	91.8	38.1	28.9	2.74	4.06							
	10.0	5.8	13.4	1420	95.1	38.5	29.1	2.80	4.02							
				1620	92.5	39.3	30.0	2.76	4.17							
50	5.0	2.4	5.6	1420	96.8	41.1	31.9	2.76	4.36	1340	56.0	51.6	34.4	58.3	1.75	29.4
				1620	94.0	42.0	32.9	2.72	4.52	1530	57.5	53.5	36.9	60.4	1.79	29.9
	7.5	3.8	8.7	1420	98.3	43.3	34.0	2.78	4.56	1340	55.9	52.4	34.5	58.6	1.61	32.6
				1620	95.3	44.2	35.0	2.74	4.72	1530	57.4	54.4	37.0	60.7	1.64	33.1
	10.0	5.4	12.4	1420	99.1	44.7	35.3	2.80	4.67	1340	55.8	53.1	34.7	59.0	1.53	34.7
				1620	96.1	45.6	36.4	2.76	4.84	1530	57.3	55.0	37.2	61.1	1.56	35.3
60	5.0	2.3	5.2	1420	100.3	46.4	37.0	2.80	4.86	1340	56.4	50.1	33.8	57.7	2.04	24.5
				1620	97.1	47.4	38.2	2.76	5.03	1530	57.9	51.9	36.2	59.7	2.08	24.8
	7.5	3.5	8.2	1420	101.9	48.9	39.4	2.82	5.07	1340	56.3	50.8	33.9	57.9	1.87	27.1
				1620	98.5	49.9	40.6	2.78	5.26	1530	57.8	52.7	36.3	59.9	1.91	27.5
	10.0	5.0	11.6	1420	102.9	50.4	40.9	2.84	5.20	1340	56.2	51.4	34.1	58.2	1.78	28.9
				1620	99.4	51.5	42.1	2.80	5.39	1530	57.7	53.3	36.5	60.2	1.82	29.3
70	5.0	2.2	5.0	1420	103.5	51.4	41.8	2.86	5.27	1340	56.9	47.9	33.0	56.6	2.37	20.2
				1620	100.0	52.5	43.0	2.81	5.46	1530	58.4	49.7	35.4	58.6	2.42	20.5
	7.5	3.4	7.8	1420	105.3	54.1	44.5	2.88	5.50	1340	56.9	48.7	33.1	56.7	2.17	22.3
				1620	101.6	55.3	45.7	2.84	5.70	1530	58.3	50.5	35.5	58.7	2.22	22.7
	10.0	4.8	11.1	1420	106.4	55.8	46.1	2.90	5.64	1340	56.7	49.3	33.3	56.9	2.07	23.8
				1620	102.6	57.0	47.4	2.85	5.85	1530	58.2	51.1	35.7	58.9	2.11	24.2
80	5.0	2.1	4.8	1420	106.7	56.3	46.5	2.90	5.68	1340	57.4	45.7	32.4	55.6	2.74	16.6
				1620	102.8	57.5	47.9	2.86	5.88	1530	58.8	47.4	34.7	57.5	2.80	16.9
	7.5	3.2	7.5	1420	108.6	59.3	49.4	2.93	5.93	1340	57.3	46.4	32.5	55.5	2.51	18.4
				1620	104.6	60.5	50.8	2.88	6.14	1530	58.8	48.1	34.8	57.5	2.56	18.7
	10.0	4.6	10.6	1420	109.9	61.1	51.3	2.95	6.08	1340	57.2	47.0	32.7	55.7	2.39	19.6
				1620	105.7	62.4	52.7	2.90	6.30	1530	58.6	48.7	35.0	57.6	2.44	19.9
90	5.0	2.0	4.6	1420	109.8	61.0	51.1	2.95	6.05	1340	57.9	43.3	31.7	54.6	3.15	13.7
				1620	105.6	62.3	52.5	2.91	6.27	1530	59.2	44.9	34.0	56.4	3.22	13.9
	7.5	3.1	7.2	1420	111.9	64.2	54.2	2.98	6.31	1340	57.8	44.0	31.8	54.4	2.89	15.2
				1620	107.5	65.6	55.7	2.93	6.54	1530	59.2	45.6	34.0	56.2	2.95	15.4
	10.0	4.4	10.2	1420	113.2	66.2	56.2	3.00	6.48	1340	57.7	44.5	32.0	54.4	2.75	16.2
				1620	108.7	67.7	57.8	2.95	6.71	1530	59.1	46.2	34.3	56.3	2.80	16.4
100	5.0	1.8	4.2	Operation Not Recommended						1340	58.6	40.6	30.7	53.3	3.61	11.2
										1530	59.9	42.1	32.9	55.1	3.69	11.4
	7.5	2.9	6.7							1340	58.5	41.2	30.8	53.0	3.31	12.4
										1530	59.9	42.8	33.0	54.7	3.38	12.6
	10.0	4.1	9.5							1340	58.4	41.7	31.0	52.9	3.15	13.2
										1530	59.7	43.3	33.2	54.7	3.21	13.4
110	5.0	1.8	4.0							1340	59.5	37.4	29.3	51.8	4.12	9.0
										1530	60.8	38.8	31.4	53.5	4.21	9.2
	7.5	2.8	6.4							1340	59.5	38.0	29.4	51.2	3.78	10.0
										1530	60.8	39.4	31.5	52.9	3.86	10.2
	10.0	3.9	9.1							1340	59.4	38.4	29.6	51.1	3.59	10.7
										1530	60.6	39.8	31.7	52.7	3.66	10.8
120	5.0	1.7	4.0							1340	60.4	34.0	28.1	50.2	4.69	7.2
										1530	61.6	35.2	30.1	51.8	4.78	7.3
	7.5	2.7	6.2							1340	60.4	34.5	28.1	49.4	4.29	8.0
										1530	61.6	35.8	30.1	51.0	4.38	8.1
	10.0	3.9	8.9							1340	60.2	34.9	28.3	49.1	4.08	8.5
										1530	61.5	36.2	30.3	50.7	4.16	8.6

Extended Data : ZT072, 6 Ton, COAX Full Load Performance Data

EWT	Flow	WPD		Full Load Heating						Full Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	18.0	15.1	34.7	1930	95.8	53.9	38.6	4.55	3.47	Operation Not Recommended						
				2210	92.7	54.3	39.2	4.50	3.53							
30	9.0	5.2	11.9	1930	96.4	55.0	39.5	4.60	3.50							
				2210	93.2	55.4	40.1	4.55	3.57							
	13.5	9.3	21.4	1930	97.4	57.0	41.3	4.67	3.57							
				2210	94.1	57.4	41.9	4.62	3.64							
	18.0	14.4	33.2	1930	97.9	58.1	42.3	4.71	3.61							
				2210	94.5	58.5	42.9	4.65	3.68							
40	9.0	4.4	10.2	1930	99.2	60.9	44.9	4.75	3.75	2000	61.3	69.5	39.7	80.9	3.29	21.0
				2210	95.7	61.3	45.5	4.70	3.82	2290	62.2	71.9	43.3	83.7	3.43	20.9
	13.5	8.1	18.7	1930	100.3	63.1	46.9	4.83	3.83	Operation Not Recommended						
				2210	96.7	63.6	47.6	4.77	3.90							
	18.0	12.7	29.2	1930	100.9	64.4	48.0	4.86	3.87							
				2210	97.2	64.8	48.7	4.81	3.95							
50	9.0	4.1	9.5	1930	102.2	67.2	51.2	4.75	4.14	2000	60.3	71.8	41.9	84.3	3.63	19.7
				2210	98.4	67.7	51.9	4.70	4.22	2290	61.2	74.2	45.7	87.3	3.77	19.6
	13.5	7.5	17.4	1930	103.5	69.7	53.5	4.83	4.23	2000	60.2	72.6	42.1	84.6	3.46	21.0
				2210	99.4	70.3	54.2	4.77	4.31	2290	61.2	75.1	45.9	87.6	3.59	20.8
	18.0	11.8	27.2	1930	104.1	71.1	54.7	4.86	4.28	2000	60.1	73.3	42.4	84.9	3.36	21.8
				2210	100.0	71.6	55.4	4.81	4.36	2290	61.0	75.8	46.2	87.9	3.49	21.7
60	9.0	3.8	8.9	1930	105.9	74.7	57.3	5.18	4.22	2000	60.0	71.5	42.6	85.2	3.97	17.9
				2210	101.5	75.3	58.1	5.12	4.30	2290	60.9	74.0	46.5	88.2	4.13	17.8
	13.5	7.1	16.3	1930	107.2	77.5	59.8	5.26	4.31	2000	59.9	72.4	42.8	85.5	3.78	19.1
				2210	102.7	78.1	60.6	5.20	4.40	2290	60.8	74.9	46.7	88.5	3.93	19.0
	18.0	11.0	25.4	1930	107.9	79.0	61.2	5.30	4.36	2000	59.7	73.0	43.1	85.8	3.68	19.8
				2210	103.4	79.6	62.0	5.24	4.45	2290	60.7	75.5	47.0	88.8	3.82	19.7
70	9.0	3.6	8.4	1930	109.5	82.3	64.0	5.46	4.41	2000	60.0	70.1	42.5	85.1	4.35	16.1
				2210	104.8	83.0	64.8	5.40	4.50	2290	60.9	72.5	46.4	88.1	4.52	16.0
	13.5	6.7	15.4	1930	111.0	85.4	66.8	5.55	4.51	2000	59.9	71.0	42.7	85.2	4.14	17.1
				2210	106.1	86.1	67.6	5.48	4.60	2290	60.9	73.4	46.6	88.2	4.31	17.0
	18.0	10.4	24.0	1930	111.8	87.1	68.3	5.59	4.56	2000	59.8	71.6	43.0	85.5	4.02	17.7
				2210	106.7	87.7	69.1	5.52	4.65	2290	60.7	74.0	47.0	88.5	4.18	17.6
80	9.0	3.5	8.0	1930	112.7	88.9	69.8	5.70	4.57	2000	60.2	68.1	42.1	84.6	4.78	14.2
				2210	107.5	89.6	70.7	5.64	4.66	2290	61.1	70.5	46.0	87.5	4.97	14.1
	13.5	6.4	14.7	1930	114.3	92.3	72.8	5.79	4.67	2000	60.1	69.0	42.3	84.6	4.55	15.1
				2210	108.9	93.0	73.7	5.72	4.76	2290	61.0	71.3	46.2	87.6	4.73	15.0
	18.0	10.0	23.0	1930	115.1	94.0	74.4	5.83	4.72	2000	60.0	69.6	42.6	84.8	4.42	15.7
				2210	109.7	94.7	75.4	5.77	4.81	2290	60.9	72.0	46.5	87.8	4.60	15.6
90	9.0	3.3	7.7	1930	115.8	95.4	75.4	5.95	4.70	2000	60.4	65.9	41.7	83.9	5.27	12.5
				2210	110.3	96.1	76.4	5.88	4.79	2290	61.3	68.1	45.5	86.9	5.48	12.4
	13.5	6.1	14.1	1930	117.5	99.0	78.7	6.04	4.80	2000	60.3	66.7	41.8	83.9	5.02	13.2
				2210	111.8	99.7	79.7	5.97	4.89	2290	61.3	68.9	45.7	86.8	5.22	13.2
	18.0	9.6	22.0	1930	118.4	100.9	80.4	6.09	4.85	2000	60.2	67.3	42.2	84.0	4.87	13.8
				2210	112.6	101.7	81.4	6.01	4.95	2290	61.1	69.5	46.0	86.9	5.07	13.7
100	9.0	3.0	7.0	Operation Not Recommended						2000	60.7	63.2	41.1	83.1	5.83	10.8
										2290	61.6	65.4	44.9	86.1	6.06	10.7
	13.5	5.7	13.1							2000	60.6	64.0	41.3	83.0	5.55	11.5
										2290	61.5	66.2	45.1	85.9	5.77	11.4
	18.0	9.0	20.7							2000	60.4	64.5	41.6	83.0	5.39	11.9
										2290	61.4	66.7	45.4	85.9	5.61	11.8
110	9.0	2.9	6.8							2000	61.0	60.1	40.4	82.1	6.48	9.2
										2290	61.9	62.1	44.0	85.1	6.74	9.2
	13.5	5.5	12.7							2000	60.9	60.8	40.5	81.8	6.17	9.8
										2290	61.8	62.9	44.2	84.7	6.42	9.7
	18.0	8.7	20.0							2000	60.8	61.3	40.8	81.8	5.99	10.2
										2290	61.7	63.4	44.6	84.7	6.23	10.1
120	9.0	2.8	6.5							2000	61.7	56.4	38.9	81.0	7.23	7.8
										2290	62.6	58.4	42.5	83.9	7.51	7.7
	13.5	5.3	12.3							2000	61.6	57.1	39.1	80.5	6.88	8.3
										2290	62.5	59.1	42.7	83.4	7.16	8.2
	18.0	8.4	19.4							2000	61.5	57.6	39.4	80.4	6.68	8.6
										2290	62.3	59.6	43.0	83.3	6.95	8.5

Extended Data : ZT072, 6 Ton, COAX Part Load Performance Data

EWT	Flow	WPD		Part Load Heating						Part Load Cooling						
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	Aiflow	LAT (DB)	TC	SC	HR	Power	EER
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W
25	12.0	8.0	18.4	1670	92.5	40.5	28.3	3.63	3.27	Operation Not Recommended						
				1910	89.3	39.7	27.9	3.52	3.30							
30	6.0	2.9	6.6	1670	92.7	41.0	28.6	3.66	3.27							
				1910	89.5	40.2	28.2	3.56	3.30							
	9.0	5.1	11.7	1670	93.8	42.9	30.4	3.70	3.39							
				1910	90.4	42.0	30.0	3.59	3.43							
	12.0	7.7	17.8	1670	94.2	43.7	31.3	3.69	3.46							
				1910	90.8	42.8	30.8	3.58	3.50							
40	6.0	2.5	5.8	1670	95.4	45.7	33.6	3.61	3.71	1620	60.3	56.7	33.9	63.9	2.06	27.5
				1910	91.7	44.9	33.1	3.50	3.75	1850	61.3	58.2	36.8	65.5	2.11	27.6
	9.0	4.5	10.3	1670	96.5	47.9	35.6	3.64	3.85	Operation Not Recommended						
				1910	92.8	46.9	35.1	3.53	3.89							
	12.0	6.8	15.7	1670	97.1	48.8	36.6	3.64	3.93							
				1910	93.2	47.9	36.0	3.53	3.97							
50	6.0	2.3	5.4	1670	98.2	50.9	38.8	3.61	4.13	1620	59.5	57.8	35.4	66.0	2.35	24.6
				1910	94.2	49.9	38.2	3.50	4.17	1850	60.5	59.3	38.4	67.7	2.40	24.6
	9.0	4.1	9.6	1670	99.6	53.3	41.1	3.64	4.29	1620	59.3	58.8	35.7	66.4	2.18	27.0
				1910	95.3	52.3	40.4	3.53	4.33	1850	60.3	60.4	38.8	68.1	2.23	27.1
	12.0	6.3	14.6	1670	100.1	54.4	42.1	3.64	4.38	1620	59.4	59.2	35.6	66.5	2.09	28.3
				1910	95.8	53.3	41.4	3.53	4.42	1850	60.4	60.7	38.6	68.2	2.14	28.4
60	6.0	2.2	5.0	1670	101.6	57.0	44.7	3.65	4.58	1620	59.7	56.3	35.0	65.6	2.68	20.9
				1910	97.1	55.8	44.0	3.54	4.62	1850	60.7	57.7	38.0	67.2	2.74	21.0
	9.0	3.9	9.0	1670	103.1	59.6	47.3	3.68	4.75	1620	59.5	57.3	35.3	65.9	2.48	23.0
				1910	98.3	58.5	46.4	3.57	4.79	1850	60.5	58.7	38.4	67.6	2.54	23.1
	12.0	5.9	13.6	1670	103.7	60.8	48.4	3.67	4.84	1620	59.6	57.6	35.2	65.9	2.38	24.1
				1910	98.9	59.6	47.6	3.57	4.89	1850	60.6	59.1	38.2	67.5	2.44	24.2
70	6.0	2.1	4.8	1670	105.0	63.0	50.4	3.75	4.93	1620	60.2	54.0	34.2	64.5	3.06	17.6
				1910	100.0	61.8	49.6	3.64	4.97	1850	61.2	55.4	37.1	66.2	3.13	17.7
	9.0	3.7	8.4	1670	106.6	66.0	53.3	3.78	5.11	1620	60.0	54.9	34.5	64.7	2.83	19.3
				1910	101.4	64.7	52.3	3.67	5.16	1850	61.0	56.3	37.4	66.3	2.90	19.4
	12.0	5.6	12.9	1670	107.3	67.3	54.6	3.78	5.21	1620	60.1	55.2	34.3	64.6	2.72	20.3
				1910	102.0	65.9	53.6	3.67	5.27	1850	61.1	56.6	37.2	66.3	2.78	20.3
80	6.0	1.9	4.5	1670	108.0	68.5	55.7	3.81	5.27	1620	60.6	51.7	33.4	63.6	3.49	14.8
				1910	102.5	67.1	54.7	3.70	5.32	1850	61.6	53.0	36.2	65.2	3.56	14.8
	9.0	3.5	8.0	1670	109.7	71.6	58.7	3.84	5.46	1620	60.4	52.6	33.7	63.7	3.23	16.2
				1910	104.1	70.2	57.7	3.73	5.52	1850	61.4	53.9	36.6	65.3	3.30	16.3
	12.0	5.3	12.2	1670	110.5	73.0	60.1	3.84	5.58	1620	60.5	52.8	33.5	63.5	3.10	17.0
				1910	104.7	71.6	59.1	3.72	5.63	1850	61.5	54.2	36.4	65.1	3.17	17.1
90	6.0	1.8	4.3	1670	110.9	73.7	60.7	3.87	5.58	1620	61.0	49.4	32.7	63.0	3.97	12.4
				1910	105.0	72.3	59.7	3.76	5.63	1850	62.0	50.6	35.5	64.5	4.06	12.4
	9.0	3.3	7.6	1670	112.8	77.2	64.0	3.91	5.78	1620	60.8	50.2	33.0	62.8	3.68	13.6
				1910	106.7	75.7	62.9	3.79	5.84	1850	61.8	51.5	35.8	64.4	3.76	13.6
	12.0	5.0	11.5	1670	113.6	78.7	65.6	3.90	5.90	1620	60.9	50.5	32.9	62.6	3.53	14.3
				1910	107.4	77.1	64.4	3.79	5.96	1850	61.9	51.8	35.7	64.2	3.61	14.3
100	6.0	1.7	3.9	Operation Not Recommended						1620	61.4	46.8	32.0	62.2	4.52	10.3
										1850	62.4	48.0	34.7	63.7	4.62	10.3
	9.0	3.0	7.0							1620	61.3	47.6	32.3	61.9	4.18	11.3
										1850	62.2	48.8	35.0	63.4	4.28	11.4
	12.0	4.7	10.7							1620	61.4	47.8	32.1	61.6	4.01	11.9
										1850	62.3	49.1	34.9	63.1	4.10	11.9
110	6.0	1.7	3.8							1620	62.0	43.7	31.1	61.1	5.12	8.5
										1850	62.9	44.8	33.7	62.7	5.23	8.5
	9.0	2.9	6.8							1620	61.8	44.5	31.4	60.6	4.74	9.3
										1850	62.7	45.6	34.0	62.1	4.85	9.4
	12.0	4.5	10.4							1620	61.9	44.7	31.2	60.2	4.55	9.8
										1850	62.8	45.9	33.9	61.7	4.65	9.8
120	6.0	1.6	3.7							1620	62.3	40.5	30.5	60.1	5.78	7.0
										1850	63.2	41.6	33.0	61.6	5.91	7.0
	9.0	2.9	6.6							1620	62.2	41.2	30.7	59.4	5.36	7.6
										1850	63.1	42.3	33.3	60.9	5.47	7.7
	12.0	4.4	10.1							1620	62.3	41.4	30.6	58.9	5.14	8.0
										1850	63.1	42.5	33.2	60.4	5.25	8.0

Revision Table

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