

# VertiCool Aurora Physical Data

		Tons	3	4	5	6	8	10
Air-Cooled EER (c)			12.8	11.6	10.6	12.3	11.2	10.3
Water-Cooled EER (c)			17.3	17.1	16.1	16.9	16.8	15.7
Water Source Heat Pump COP (c)			5.4	5.2	4.8	5.3	5.0	4.7
Evaporator Supply Air	CFM		1200	1600	2000	2400	3200	4000
	Std. ESP		0.25"					
	Max. ESP (a)		1.0"					
Evaporator Blower	Size		12-12			15-15		
	Qty		1					
Evaporator Motors	Std. HP		1/3	1/3	3/4	1/2	1	1-1/2
	Opt. HP		3/4	3/4	1	1-1/2	1-1/2	3
Evaporator Coil	Rows		3					
	Face Area		4.67			9.33		
	FPI		12					
Filter	Type		Pleated Throwaway					
	Qty		2			4		
	Dimensions		14 x 25 x 2					
	Efficiency		MERV 8					
Compressor	Type		Scroll					
	Qty		1			2		
Condenser Air	CFM		1800	2400	3000	3600	4800	6000
	Std. ESP		0.25"					
	Max. ESP (a)		1.0"					
Condenser Blower	Size		12-12			15-15		
	Qty		1					
Condenser Motors	Std. HP		1/2	3/4	1-1/2	1	2	5
	Opt. HP		1	1-1/2	2	2	3	(d)
Condenser Coil	Rows		4					
	Face Area		5.33			10.67		
	FPI		16					
Water Cooled Cond. (f)	Type		Co-Axial					
	Qty		1			2		
Charge R-410a (Lbs - Ozs) (g) (Charge per circuit)	Air-Cooled		4 - 7	4 - 15	4 - 11	4 - 5	4 - 13	4 - 10
	Water-Cooled		1 - 14	2 - 8	2 - 8	1 - 14	2 - 8	2 - 8
	Water-Source HP		2 - 7	2 - 13	2 - 13	2 - 5	2 - 11	2 - 12
Weight (Net Operating) (b)	Air-Cooled		800	800	800	1150	1150	1150
	Water-Cooled		700	700	700	1000	1000	1000
Available Voltages (e)	208/230-1-60		•	•	•	•	•	---
	208/230-3-60		•	•	•	•	•	•
	460-3-60		•	•	•	•	•	•

(a) Requires optional motor / drive upgrade.

(b) Net operating weight is for basic unit only. Options will add weight.

(c) Refrigerant circuit options will impact unit performance.

(d) Pulley & belt upgrade only.

(e) 575 volt available. Consult factory.

(f) Contact factory for geothermal applications.

(g) R-410a Refrigerant charge is for base unit configuration. Addition of some options may alter refrigerant amount.

# VertiCool Aurora Physical Data

		Tons	12	15	20	25	30 (h)	35 (h)
Air-Cooled EER (c)			11.2	9.7	10.8	9.5	9.5	9.7
Water-Cooled EER (c)			16.0	13.9	15.6	14.9	13.8	14.6
Water Source Heat Pump COP (c)			5.0	4.5	4.8	4.6	4.5	4.8
Evaporator Supply Air	CFM		4800	6000	8000	10,000	12,000	14,000
	Std. ESP		0.25"		0.5"		1"	
	Max. ESP (a)		1.0"		1.25"		2"	
Evaporator Blower	Size		15-15		15-11			18-13
	Qty		1		2			
Evaporator Motors	Std. HP		2	5	5	7.5	15	10
	Opt. HP		3	(d)	7.5	10	(d)	15
Evaporator Coil	Rows		3		4			
	Face Area		14		20.83		23.89	27.78
	FPI		12		14			
Filter	Type		Pleated Throwaway					
	Qty		6		12		8	
	Dimensions		14 x 25 x 2		12 x 20 x 2		20 x 15 x 2	20 x 25 x 2
	Efficiency		MERV 8					
Compressor	Type		Scroll					
	Qty		2					
Condenser Air	CFM		7200	9000	12000	15,000	18000	21000
	Std. ESP		0.25"					
	Max. ESP (a)		1.0"					
Condenser Blower	Size		15-11		15-11		18-13	
	Qty		2		3			
Condenser Motors	Std. HP		3	5	7-1/2	10	10	15
	Opt. HP		5	7-1/2	(d)	15	15	20
Condenser Coil	Rows		4		6			
	Face Area		16		20.83		23.89	27.78
	FPI		16					
Water Cooled Cond. (f)	Type		Co-Axial					
	Qty		2		4			
Charge R-410a (Lbs - Ozs) (g) (Charge per circuit)	Air-Cooled		9 - 1	9 - 4	25 - 5	25 - 0	29 - 1	32 - 7
	Water-Cooled		3 - 15	4 - 9	9 - 12	9 - 14	12 - 6	13 - 7
	Water-Source HP		5 - 0	5 - 7	13 - 0	13 - 0	16 - 11	18 - 9
Weight (Net Operating) (b)	Air-Cooled		1600	1600	2650	2650	4000	4100
	Water-Cooled		1150	1150	1730	1730	2750	2800
Available Voltages (e)	208/230-1-60		---	---	---	---	---	---
	208/230-3-60		•	•	•	•	•	•
	460-3-60		•	•	•	•	•	•

(a) Requires optional motor / drive upgrade.

(b) Net operating weight is for basic unit only. Options will add weight.

(c) Refrigerant circuit options will impact unit performance.

(d) Pulley & belt upgrade only.

(e) 575 volt available. Consult factory.

(f) Contact factory for geothermal applications.

(g) R-410a Refrigerant charge is for base unit configuration. Addition of some options may alter refrigerant amount.

(h) Units always shipped split.