ARBOR SERIES

COMMERCIAL UNITS

GEOSTAR

AFFORDABLE RENEWABLE CLEAN

OUR SMALL FOOTPRINT...
LEAVES A BIG IMPRESSION.

You're interested in being the most efficient possible — providing extremely comfortable heating and cooling while costing you less. GeoStar units will provide just that, we pride ourselves on our dedication to innovation and quality.

The Arbor Series goes beyond ASHRAE 90.1 efficiencies. On top of operating at the high efficiencies of today's technology, the Arbor Series utilizes environmentally friendly R-410A refrigerant. This unit is available in a wide selection of capacities (009-070 kBtuh output), cabinet sizes, and factory installed options ensuring you have the perfect product to fit your needs.

ARBOR SERIES
SIZES AND PERFORMANCE

SIZE

0.75-6 TONS

EFFICIENCY

3.0-3.8 COP

13.5-18.5 EER

VERTICAL DIMENSIONS

MODEL	A	B	C
009 - 012	23.7″	22.5″	22.2″
015 - 018	36.2″	22.5″	22.2″
024 - 030	40.2″	22.5″	26.2″
036 - 041	44.2″	22.5″	26.2″
042 - 048	44.2″	25.5″	31.2″
060	48.2″	25.5″	31.2″
070	52.2″	25.5″	31.2″

HORIZONTAL DIMENSIONS

MODEL	A	B	C
009 - 012	11.9″	19.2″	30.9″
015 - 023	17.2″	22.5″	42.0″
024 - 030	19.2″	22.5″	42.0″
036	19.2″	22.5″	45.0″
042 - 048	21.2″	25.5″	48.0″
060	21.2″	25.5″	53.0″
070	21.2″	25.5″	61.0″

PRIMARY FEATURES

✓ **COMPRESSOR:** Available scroll or rotary single speed compressors. The compressors are also affixed on a double isolation system. A Super Quiet Sound Package is available for a greater reduction in noise.

✓ **BLOWER INLET RINGS:** These make removing the blower or motor a snap. No need to disconnect them from the units duct work.

✓ **HOT GAS BYPASS/HOT GAS REHEAT:** Perfect for greater humidity control in schools, auditoriums, computer rooms and theaters.

✓ **WATER LINES:** Flush mount connections allow one wrench leak-free connections without a back-up.

✓ **WATER VALVE:** A low pressure drop (high Cv) water solenoid valve for variable speed pumping applications is available as a factory installed option.

✓ **THERMASHIELD™:** A proprietary coating is applied to water-to-refrigerant heat exchangers which protects against condensations in applications used in temperatures below 50°F.

✓ **CABINET:** A heavy gauge, environmentally friendly galvanized steel provides a great resistance against corrosion. A high density, foil faced cabinet insulation is available for greater air quality and easy cleaning.

✓ **BLOWER MOTOR:** Three motors are available. A PSC blower motor yields high efficiency with low noise. It also has a wide range of airflow selections for your comfort. Optional 5-Speed ECM and variable speed ECM blower motors are also available providing greater efficiency and in turn more comfort for you.

✓ **ALUMINUM AIR COIL:** Standard on all Arbor Series units, an all-aluminum air coil offers the utmost in durability. An optional AlumiSeal™ protective coating is also available.

✓ **BLOWER MOTOR:** Three motors are available. A PSC blower motor yields high efficiency with low noise. It also has a wide range of airflow selections for your comfort. Optional 5-Speed ECM and variable speed ECM blower motors are also available providing greater efficiency and in turn more comfort for you.

✓ **FILTER:** Two filters are available. A 1" MERV 4 disposable filter or 2" Pleated MERV 13 (for LEED certification points).

✓ **SOFT START:** A feature called GeoStart™ reduces the amount of current needed to activate a unit by 60-70%. This dampens light flicker, reduces start-up noise and increases compressor life. This option is perfect for units running off-the-grid.

✓ **CONTROLS:** Our Aurora controls platform is standard. An optional FX-10 microprocessor control, featuring N2, LonWorks, and BAC net compatibility is available.

ADDITIONAL OPTIONS:

- High static PSC & ECM blowers
- Hot Water Generation
- Compressor phase guard protection
- 'Dial' type internally wired disconnect
- Corrosion-resistant composite or stainless steel drain pan
- 460V models with 5-Speed ECM motor option do not require the additional neutral wire

AHRI/ISO 13256-1 PERFORMANCE RATINGS

PSC Motor

AHRI/ASHRAE/ISO 13256-1
English (IP) Units

Model	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
			Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
	gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
009	3.0	350	8,500	12.0	11,500	4.4	10,500	18.2	9,600	3.7	9,100	13.5	7,600	3.0
012	3.5	400	10,900	12.7	14,700	4.4	12,500	18.2	12,000	3.8	11,500	14.7	9,600	3.2
015	4.0	500	14,000	15.0	16,500	4.8	16,000	24.0	15,000	4.1	14,700	17.2	11,500	3.5
018	5.0	600	17,600	14.6	21,000	4.7	20,600	23.5	17,500	4.0	18,500	17.0	13,700	3.5
023	6.0	800	23,000	14.5	26,000	4.5	25,400	22.5	21,900	3.9	23,900	16.8	17,000	3.4
024	6.0	800	23,900	14.6	27,000	4.7	26,400	22.8	22,300	4.0	24,400	17.0	17,500	3.5
030	8.0	1000	29,500	14.9	34,600	4.8	32,900	23.0	28,300	4.0	29,000	17.0	22,800	3.5
036	9.0	1150	33,300	14.4	40,600	4.5	37,700	21.2	33,000	3.9	34,500	16.6	26,000	3.3
041	11.0	1300	40,000	13.8	45,000	4.3	44,500	20.6	36,000	3.8	41,000	15.8	29,000	3.3
042	11.0	1400	40,800	14.5	45,400	4.5	45,800	22.0	37,000	3.8	42,300	16.8	29,900	3.3
048	12.0	1600	47,700	14.7	56,000	4.4	52,000	21.0	45,900	3.8	49,500	16.8	36,900	3.3
060	15.0	1900	58,400	14.7	72,500	4.4	65,500	20.8	58,400	3.8	60,900	16.6	47,100	3.3
070	18.0	2100	63,000	14.2	79,000	4.4	70,000	20.3	64,100	3.8	68,500	15.2	51,600	3.3

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature
Heating capacities based upon 68°F DB, 59°F WB entering air temperature
All ratings based upon 208V operation

Variable Speed ECM or 5-Speed ECM Motor

AHRI/ASHRAE/ISO 13256-1
English (IP) Units

Model	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
			Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
	gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
015	4.0	500	14,000	15.3	16,500	4.9	16,000	24.3	15,000	4.4	14,700	17.5	11,500	3.7
018	5.0	600	17,600	15.2	21,000	4.8	20,600	24.0	17,500	4.4	18,500	17.5	13,700	3.7
023	6.0	800	23,000	15.0	26,000	4.7	25,400	23.0	21,900	4.3	23,900	17.0	17,000	3.6
024	6.0	800	23,900	15.1	27,000	5.0	26,400	23.4	22,300	4.5	24,400	17.5	17,500	3.8
030	8.0	900	29,500	15.7	34,600	5.1	32,900	23.9	28,300	4.4	29,000	18.3	22,800	3.8
036	9.0	1150	33,300	15.0	40,600	4.8	37,700	23.0	33,000	4.3	34,500	17.3	26,000	3.5
041	11.0	1300	40,000	14.5	45,000	4.5	44,500	22.0	36,000	4.0	41,000	16.5	29,000	3.4
042	11.0	1400	40,800	15.6	45,400	5.0	45,800	23.5	37,000	4.3	42,300	18.5	29,900	3.7
048	12.0	1600	47,700	15.5	56,000	4.8	52,000	23.4	45,900	4.2	49,500	18.1	36,900	3.6
060	15.0	1900	58,400	15.3	72,500	4.7	65,500	23.0	58,400	4.0	60,900	17.9	47,100	3.6
070	18.0	2100	63,000	14.3	79,000	4.7	70,000	21.0	64,100	4.0	68,500	16.1	51,600	3.5

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature
Heating capacities based upon 68°F DB, 59°F WB entering air temperature
All ratings based upon 208V operation

Brought to you by:

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