

# ARBOR SERIES COMPACT

COMMERCIAL UNITS



**GEOSTAR**  
AFFORDABLE RENEWABLE CLEAN

# ARBOR SERIES COMPACT: THE NEXT BIG THING IS SMALL.

The GeoStar Arbor Compact provides a true value product to our commercial water source heat pump line and is a perfect fit in new construction or retrofits. The Arbor Compact combines a compact design, high efficiency operation and a number of valuable features and offers them at a great price point. This product was designed for use in both water loop and geothermal applications and comes in a wide selection of capacities (006-070 MBtuh output) for unmatched flexibility. The Arbor Compact utilizes environmentally friendly R410A refrigerant and exceeds ASHRAE 90.1 efficiencies.

## ARBOR SERIES COMPACT SIZES AND PERFORMANCE

### SIZE

0.5-6 TON

### EFFICIENCY

3.3-3.5 COP

14.2-17.0 EER



## VERTICAL DIMENSIONS

MODEL	A	B	C
006 - 012	24.2"	19.2"	19.2"
015 - 018	30.2"	22.5"	22.2"
024 - 030	36.2"	22.5"	22.2"
036	40.2"	22.5"	26.2"
042 - 048	44.2"	22.5"	26.2"
060	44.2"	25.5"	31.2"
070	48.2"	25.5"	31.2"

## HORIZONTAL DIMENSIONS

MODEL	A	B	C
006 - 012 <sup>1</sup>	12.1"	19.2"	35.0"
015 - 018	17.2"	22.5"	35.0"
024 - 030	17.2"	22.5"	42.0"
036	19.2"	22.5"	42.0"
042 - 048	19.2"	22.5"	45.0"
060	21.2"	25.5"	48.0"
070	21.2"	25.5"	53.0"

## PRIMARY FEATURES

✓ **COMPRESSOR:** The Arbor Compact comes with a scroll single speed compressor in commercial voltages. A compressor blanket option is available for improved noise reduction.

✓ **CABINET:** A small footprint is ideal for retrofit applications. Heavy gauge, environmentally responsible galvanized steel is featured for maximum corrosion resistance while standard foil-faced cabinet insulation allows for improved air quality and easy cleaning.

✓ **FILTER:** The Arbor Compact comes standard with a 1" MERV 4 disposable filter with filter rail while a 2" pleated MERV 13 and deluxe filter rack are optional. The unit is field switchable from 1" or 2" filters.

✓ **BLOWER MOTOR:** PSC blower motors provide high efficiency while allowing quiet operation and wide range of airflow selections. Optional 5-Speed ECM and variable speed ECM blower motors are available for improved efficiency and comfort.

✓ **CONTROLS:** Sophisticated Aurora controls provide easy-to-use but extensive troubleshooting capabilities as well as advanced two-way communication between components.

✓ **WATER VALVE:** Optional factory installed, low pressure drop (high Cv) water solenoid valve is available for variable speed pumping applications and complies with the ASHRAE 90.1 standard requirement for WSHP. Pair this feature with optional Automatic Water Flow Control Valve to ensure proper water flow rate.



✓ **BLOWER INLET RINGS:** Convenient rings allow for easy motor and blower removal without disconnecting from the unit duct work.

✓ **AIR COIL:** GeoStar Arbor Compact units feature an aluminum air coil to provide high efficiencies at low face velocities as well as the ultimate in durability. An optional AlumiSeal™ coating is also available for added protection.

✓ **DRAIN PAN:** A corrosion-resistant composite drain pan is standard while an optional stainless steel drain pan is also available.

✓ **COAXIAL HEAT EXCHANGER:** Protect against condensate damage in extended range applications (below 50°F) with our optional water-to-refrigerant heat exchanger coating.

✓ **ADDITIONAL OPTIONS:**

- Compressor Phase Guard Protection
- Rotary 'dial' type internally wired non-fused disconnect

# AHRI/ISO 13256-1 PERFORMANCE RATINGS

**PSC Motors**  
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
006	2.0	250	7,100	13.4	8,000	4.3	8,400	21.3	6,800	3.8	7,400	15.5	5,400	3.2
009	3.0	350	8,100	12.2	11,400	4.6	9,900	19.2	9,600	4.0	8,900	14.5	7,600	3.4
012	3.0	400	10,200	12.2	15,200	4.4	12,200	18.2	12,600	3.9	11,200	14.2	10,200	3.5
015	4.0	500	13,200	12.5	15,400	4.5	16,000	20.0	13,000	4.0	14,000	15.3	10,400	3.2
018	5.0	600	17,300	13.4	19,000	4.3	19,800	20.5	16,000	3.7	18,000	15.4	12,600	3.2
024	6.0	800	22,900	13.0	26,000	4.5	27,000	19.8	22,600	4.0	24,500	14.8	17,000	3.3
030	8.0	1000	28,400	13.8	34,000	4.5	33,500	21.0	28,000	4.0	30,000	16.0	21,000	3.3
036	9.0	1150	34,500	14.0	43,800	4.7	40,000	22.0	35,600	4.2	36,000	16.3	26,000	3.3
041	11.0	1100	37,600	13.5	48,000	4.3	44,500	20.4	38,500	3.8	40,000	15.0	28,500	3.2
042	11.0	1400	39,200	13.2	51,000	4.7	47,000	20.4	41,400	4.3	42,000	15.2	30,500	3.3
048	12.0	1600	47,200	13.0	59,000	4.6	57,000	19.8	48,000	4.0	49,500	15.0	36,500	3.3
060	15.0	1900	57,000	13.5	66,000	4.3	67,000	21.0	55,000	4.0	58,000	15.2	43,000	3.3
070	18.0	2100	66,000	14.0	80,000	4.5	75,000	20.5	64,000	4.0	68,000	15.6	49,000	3.3

8/9/18

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, 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
006	2.0	250	7,150	14.0	8,500	4.4	8,600	22.0	7,100	4.0	7,600	16.0	5,500	3.2
009	3.0	350	8,300	13.4	11,500	4.8	10,300	22.0	9,600	4.1	9,100	15.0	7,600	3.4
012	3.0	400	10,300	13.0	14,500	4.5	12,800	20.0	11,900	4.0	11,300	15.0	10,200	3.5
015	4.0	500	13,800	13.2	16,100	4.6	16,000	21.0	13,400	4.1	14,200	15.7	11,000	3.3
018	5.0	600	17,300	14.2	19,000	4.5	19,800	22.0	16,000	3.9	18,000	16.2	12,600	3.3
024	6.0	800	22,900	13.6	26,000	4.7	27,000	20.8	22,600	4.2	24,500	15.6	17,000	3.5
030	8.0	900	28,400	14.7	34,000	4.7	33,500	22.5	28,000	4.2	30,000	17.0	21,000	3.5
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041	11.0	1300	39,000	13.9	48,500	4.7	45,000	21.0	38,500	4.1	41,000	16.0	28,500	3.4
042	11.0	1400	39,200	14.2	51,000	4.9	47,000	22.0	41,400	4.5	42,000	16.6	30,500	3.5
048	12.0	1600	47,200	14.0	59,000	4.8	57,000	21.0	48,000	4.2	49,500	16.0	36,500	3.5
060	15.0	1900	57,000	14.0	66,000	4.6	67,000	22.0	55,000	4.2	58,000	16.0	43,000	3.5
070	18.0	2100	66,000	14.6	80,000	4.7	75,000	22.0	64,000	4.2	68,000	16.6	49,000	3.5

8/9/18

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

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