ASTON SERIES COMPACT

COMMERCIAL UNITS

GEOSTAR

AFFORDABLE RENEWABLE CLEAN

HIGH EFFICIENCY IN A SMALL FOOTPRINT.

The Aston Compact offers the industry's best efficiencies and features while maintaining a compact footprint. Its small size and extended range operation make it the ideal solution for the replacement of boiler/tower applications as well as commercial geothermal installations. Available in capacities from 0.75– to 6–ton, the Aston Compact was built around our Aurora family of communicating controls and carries options like hot gas reheat and bypass; a factory-installed 24V motorized on/off water valve option for VFD pumping with automatic internal water flow control; and variable speed ECM, 5–Speed ECM, or high–efficiency PSC blower motors to fit any need. The Aston Compact utilizes environmentally friendly R410A refrigerant and is more than twice as efficient as ASHRAE 90.1 standards. It's the perfect fit for those who need outstanding comfort, unmatched efficiency and low operating costs.

ASTON SERIES COMPACT
SIZES AND PERFORMANCE

SIZE

0.75-6 TON

EFFICIENCY

3.7-4.8 COP

18.0-30.0 EER

VERTICAL DIMENSIONS

MODEL	A	B	C
009 - 012	30.2″	22.5″	22.2″
015 - 018	40.2″	22.5″	26.2″
024 - 030	44.2″	22.5″	26.2″
036 - 038	44.2″	25.5″	31.2″
042 - 049	48.2″	25.5″	31.2″
060 - 072	52.2″	25.5″	31.2″

HORIZONTAL DIMENSIONS

MODEL	A	B	C
009 - 012	17.2″	22.5″	35.0″
015 - 018	19.2″	22.5″	42.0″
024 - 030	19.2″	22.5″	45.0″
036 - 038	21.2″	22.5″	48.0″
042 - 049	21.2″	25.5″	53.0″
060 - 064	21.2″	25.5″	61.0″
070 - 072	21.2″	25.5″	68.0″

PRIMARY FEATURES

COMPRESSOR: The Aston Compact includes either a Copeland K-5 Scroll™ or LG rotary compressor for single speed units or Copeland Scroll UltraTech™ compressors in dual capacity systems. These compressors are available in commercial voltages and are mounted on a double isolation system.

COAXIAL HEAT EXCHANGER: Oversized and convoluted heat exchangers are featured with copper inner tube (optional cupronickel) and steel outer tube. This component is designed for maximum heat transfer at normal and low water flow rates to minimize pressure drop.

FILTER RACK: A redesigned filter rack includes a standard 1" filter rail with a MERV 4 filter. Options include a 1" or 2" four-sided filter rack suitable for ducted applications or a 2" filter rail with MERV 13 filters for non-ducted applications.

REFRIGERANT CIRCUIT: Units utilize R-410A refrigerant in sealed circuits. Metering is accomplished with a bi-flow thermostatic expansion valve to deliver optimum flow over a wide range of conditions without troublesome check valves. A four-way solenoid activated reversing valve defaults to heating and is "cool brazed" at the factory.

AIR COIL: GeoStar Aston 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.

CONTROLS: Our Aurora controls platform is standard. Optional FX10 microprocessor controls with N2, LonWorks, and BACnet compatibility are also available.

WATER LINES: Copper FPT waterline connections are securely mounted flush to the cabinet corner post.

CABINET: A heavy gauge, environmentally friendly galvanized steel cabinet provides a great resistance against corrosion. Multiple knockouts in various sizes facilitate power and low voltage wiring.

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

ADDITIONAL OPTIONS:

- Hot Gas Reheat and Bypass (015-072)
- 460V models with 5-Speed ECM motor option do not require the additional neutral wire
- Sound kits for quiet operation
- Factory installed disconnect, Phase Guard and GeoStart soft start
- Composite or stainless steel drain pans with secondary drain connections
- Extended range coaxial heat exchanger and piping insulation

AHRI/ASHRAE/ISO 13256-1

PSC Motor
English (IP) Units

Model	Capacity Modulation	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	Single	3.0	350	9,600	14.5	13,200	5.2	10,800	22.2	10,600	4.4	9,800	16.7	7,800	3.4
012	Single	3.5	400	12,300	15.7	14,800	5.1	14,500	25.5	12,300	4.5	13,000	18.0	9,600	3.7
015	Single	4.0	500	14,400	15.9	18,500	5.1	16,700	26.0	15,500	4.5	15,000	18.0	12,000	3.8
018	Single	5.0	600	18,000	15.6	23,000	5.1	21,000	25.5	19,000	4.4	18,500	18.0	14,700	3.8
024	Single	8.0	850	24,800	16.2	29,600	5.0	28,100	24.0	23,900	4.3	26,000	19.2	18,900	3.7
030	Single	8.0	900	27,600	18.2	30,600	5.4	30,800	27.1	24,400	4.7	29,200	21.1	19,800	3.8
036	Single	9.0	1200	34,100	17.6	34,200	5.6	36,300	25.7	28,200	4.7	34,600	19.6	24,100	4.0
042	Single	11.0	1300	40,100	16.6	42,800	5.1	44,600	24.5	34,900	4.3	41,600	18.6	27,500	3.7
048	Single	12.0	1500	46,400	15.5	53,100	4.9	51,600	22.5	43,400	4.2	48,900	17.3	35,000	3.6
060	Single	15.0	1800	61,300	15.4	69,000	5.0	68,700	23.2	55,100	4.4	65,500	18.2	43,200	3.7
070	Single	18.0	2000	67,000	14.5	81,800	4.6	75,900	21.6	66,100	4.0	70,600	17.0	52,000	3.4

3/16/12

Variable Speed ECM and 5-Speed ECM Motors
English (IP) Units

Model	Capacity Modulation	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	Single	4.0	500	14,400	16.5	18,500	5.3	16,700	27.0	15,500	4.7	15,000	18.8	12,000	4.0
018	Single	5.0	600	18,000	16.5	23,000	5.3	21,000	26.8	19,000	4.7	18,500	19.0	14,700	4.1
024	Single	8.0	800	24,800	17.0	29,600	5.3	28,100	27.5	23,900	4.6	26,000	19.6	18,900	3.8
030	Single	8.0	900	27,800	19.2	30,600	5.7	31,200	29.5	24,400	4.8	29,400	21.9	20,000	4.0
036	Single	9.0	1200	34,900	21.6	34,200	6.0	38,000	30.1	28,200	5.1	35,400	22.4	24,100	4.4
042	Single	11.0	1300	40,800	20.0	42,800	5.7	46,200	29.5	35,000	4.9	42,000	21.8	27,500	4.2
048	Single	12.0	1500	47,300	18.5	53,100	5.4	53,000	26.1	43,400	4.7	49,300	20.1	35,000	3.9
060	Single	15.0	1800	61,300	16.6	69,000	5.3	69,000	24.7	57,000	4.7	65,500	19.2	45,000	4.0
070	Single	18.0	2000	67,000	15.4	81,800	5.0	77,400	23.8	67,000	4.4	70,600	18.0	52,500	3.7
026	Full	8.0	950	26,000	17.3	30,300	5.5	29,000	24.0	25,100	5.0	27,700	20.4	19,500	4.3
	Part	7.0	750	20,000	19.5	22,300	6.4	22,600	32.7	18,300	5.3	22,000	27.9	16,300	4.8
038	Full	9.0	1300	39,000	18.0	40,300	5.4	39,400	24.1	33,600	4.8	40,200	21.0	26,700	4.1
	Part	8.0	1150	28,500	20.3	29,100	6.3	31,500	35.4	24,000	5.1	30,100	30.0	22,000	4.8
049	Full	12.0	1600	50,300	17.1	56,100	5.2	56,200	24.5	46,300	4.6	52,000	20.0	37,400	4.0
	Part	11.0	1400	37,200	19.2	39,800	5.8	41,500	33.0	32,300	4.7	40,600	28.5	30,000	4.6
064	Full	16.0	1800	62,000	16.3	70,600	5.2	70,100	23.9	58,000	4.7	65,100	18.7	47,100	4.0
	Part	14.0	1500	45,000	18.0	50,100	5.8	51,500	29.9	41,300	5.0	50,000	25.9	37,000	4.4
072	Full	18.0	2000	69,000	15.0	81,900	4.8	78,500	22.0	67,500	4.3	71,600	17.0	54,200	3.7
	Part	16.0	1500	52,800	16.0	61,400	5.2	61,000	27.0	49,400	4.4	59,000	23.4	45,000	4.1

3/16/12

PSC Motor, Variable Speed ECM Motor and 5-Speed ECM Motor:
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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