Ascend® Air-Cooled Chillers

Right balance of energy efficiency and quiet operation

Model ACS 140 - 230 tons cooling

There are many choices when it comes to a cooling solution for your buildings. But, there is only one chiller that delivers a well balanced solution—efficient, reliable, and quiet operation while providing a sustainable performance.

Efficient operation

Trane ACS chillers are especially optimized for part load efficiencies, for those buildings with highly variable loads. ACS chillers meet ASHRAE 90.1-2019 for both full- and part-load efficiencies. You don't have to compromise full-load performance to gain better part-load operation. We deliver both. Optional fixed speed fans are available to meet business targets.

Quiet performance

ACS chillers offer flexible acoustic options, allowing you to choose the level of sound treatment that best meets your application requirements. These units are ideal for residential or school environment where sound sensitivity are top priorities. Multiple sound packages offer sound power levels as low as 95 dBA at AHRI conditions for full-load operations.

Simplified service

ACS chillers are designed to make maintenance duties easier, safer and less frequent.

- Transverse "open V" design condenser coils—This design allows easier cleaning of the condenser coils from the inside out, to keep the coils and the chiller properly functioning.
- Maintenance-free, long-life motors—condenser fans are powered by variable speed, permanent magnet motors that require no periodic maintenance and are designed for exceptionally long operational life.
- 24/7/365 local rental services and engineering expertise available for planned or unplanned, short and long term needs.

Lower carbon footprint

ACS chillers help customers meet sustainability goals by reducing the direct emissions of greenhouse gases while increasing efficiency.

- The ACS chiller's design is optimized with the next-generation, low-global warming refrigerant R-454B in mind. This refrigerant provides a 75% percent drop in GWP over R-410a.
- Light weight, anti-corrosive microchannel condenser coils lower refrigerant charge.

Remote Connectivity for optimal performance and uptime

Building data is collected by the Symbio® 800 unit controller to remotely monitor, troubleshoot, schedule and control the ACS chiller 24 hours a day. The Symbio® 800 unit controller features factory programmed Adaptive Control™ performance algorithms that respond to a variety of conditions to maximize efficient chiller plant operation.

Symbio 800 integrates seamlessly and securely with your building automation system, leveraging secure remote IP connectivity (BACnet, Modbus®) and optional Air-Fi® wireless technology and LonTalk® communication protocols for simplified equipment monitoring and management.

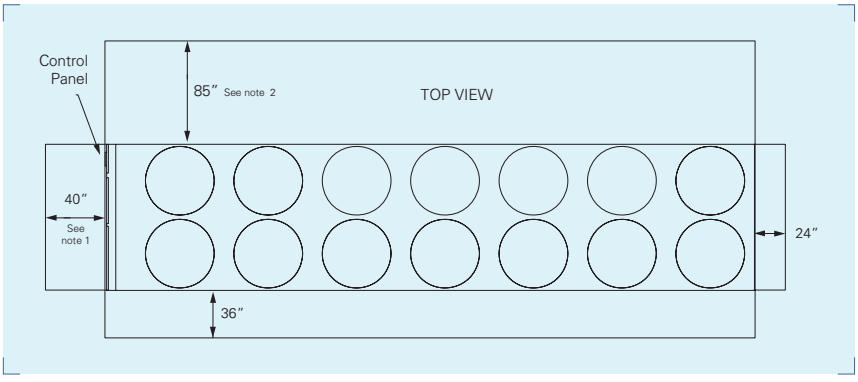
General Data

SIZE	RATED POWER	FULL LOAD EER	IPLV EER	OPERATING WEIGHT (LB)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	FLOW (GPM) MIN	FLOW (GPM) MAX	WATER CONNECTION (IN)	MCA	MOP
140	208	ASHRAE 90.1 2019 Compliant ≥ 9.7	ASHRAE 90.1 2019 Compliant ≥ 15.8	7897	229	88	98	168	504	4	629	700
	230			7897	229	88	98				622	700
	460			7897	229	88	98				285	350
	575			7897	229	88	98				233	250
160	208			9577	229	88	98	192	576	4	693	800
	230			9577	229	88	98				686	800
	460			9577	229	88	98				313	350
	575			9577	229	88	98				257	300
180	208		ASHRAE 90.1 2019 Compliant ≥ 16.1	9577	282	88	98	216	648	4	805	1000
	230			9577	282	88	98				800	1000
	460			9577	282	88	98				367	400
	575			9577	282	88	98				300	350
200	208			9577	282	88	98	240	720	4	877	1000
	230			9577	282	88	98				868	1000
	460			9577	282	88	98				398	450
	575			9577	282	88	98				325	350
215	208			10520	335	88	98	258	774	4	953	1000
	230			10520	335	88	98				943	1000
	460			10520	335	88	98				433	500
	575			10520	335	88	98				354	400
230	208			10701	335	88	98	276	828	4	1017	1200
	230			10701	335	88	98				1007	1200
	460			10701	335	88	98				460	500
	575			10701	335	88	98				378	400

* Weight and dimension can change depending on options selected.

- Minimum leaving chilled fluid temperature set point: 0°F
- Maximum leaving chilled water temperature set point: 68°F

Service Clearances - No Obstructions Above Unit



Notes:

A full 40 inches clearance is required in front of the control panel. Must be measured from front of panel, not end of unit base.

Clearance of 85 inches on the side of the unit is required for coil replacement. Preferred side for coil replacement is shown (left side of the unit, facing control panel), however, either side is acceptable.

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