

ADSORPTION CHILLER **ADC Series -Ext E-FRAME**

FEATURE HIGHLIGHTS

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| <ul style="list-style-type: none"> * Ultra low electricity consumption * Zero ozone depletion potential * No dangerous chemicals * Very few moving parts | <ul style="list-style-type: none"> * Ease of maintenance * Advanced microprocessor control * Designed for outdoor installation * Wide temperature ranges allowed |
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MODEL	E-190
Rated Capacity (Tonnes)	190

Chilled Water

Inlet Temperature (°C)	12.8
Outlet Temperature (°C)	7.2
Flow Rate (l/min)	1726
Pressure Drop (mtr. H ₂ O)	10.7
Connection Size: (mm)	100

Condenser Water

Inlet Temperature (°C)	29
Outlet Temperature (°C)	35
Flow Rate (l/min)	5201
Pressure Drop (mtr. H ₂ O)	13.7
Connection Size: (mm)	150

Hot Water

Inlet Temperature (°C)	90.6
Outlet Temperature (°C)	84
Flow Rate (l/min)	2877
Pressure Drop (mtr.H ₂ O)	9.1
Connection Size: (mm)	100

*Rated for maximum capacity mode. Higher efficiencies are available at reduced capacities.

*All data is preliminary and subject to change without notice.

Electrical

Voltage..... 415-3-50/60
 Frequency.....50/60 Hz
 Operating kW Consumption.....0.8 kW
 Maximum kW Consumption.....1.9 kW

Air Supply

Air Pressure (bar).....4.89
 Air Consumption (cfm).....0.34

Unit Dimensions*

Width (mm).....2489
 Length (mm).....5080
 Height (mm).....3251

*with cabinets mounted on the side as shown

Weight

Empty (kg).....18144
 Operating (kg).....19958

Refrigerant type..... Water (H₂O)

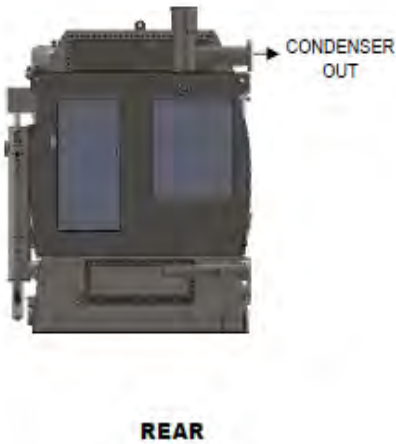
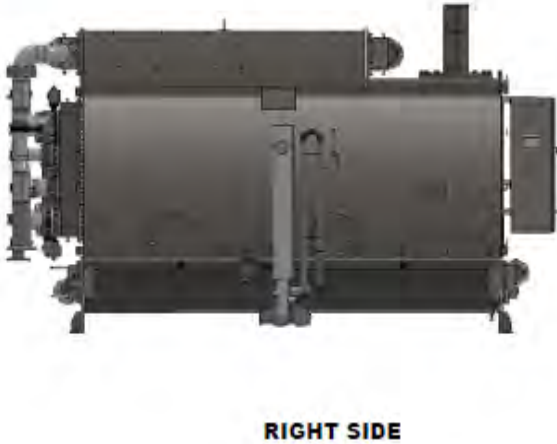
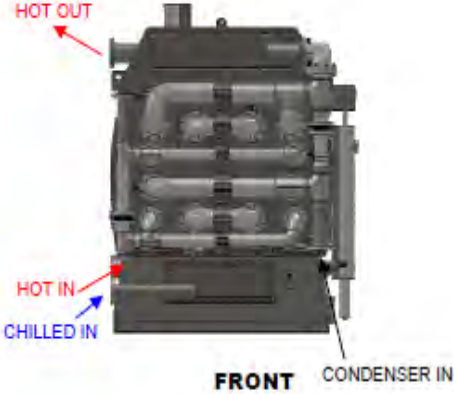
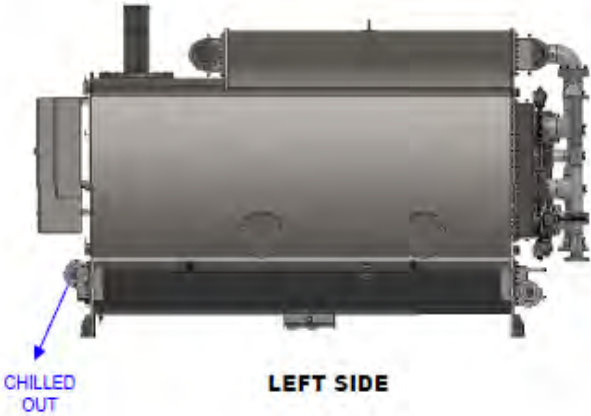
Operating Range

Chilled Water (°C).....3 to 20
 Hot Water (°C).....52 to 93
 Condenser Water (°C).....10 to 39
 Maximum Pressure (bar)..... 4.82

*Maximum pressure 4.82 for hot, chilled, & condenser water

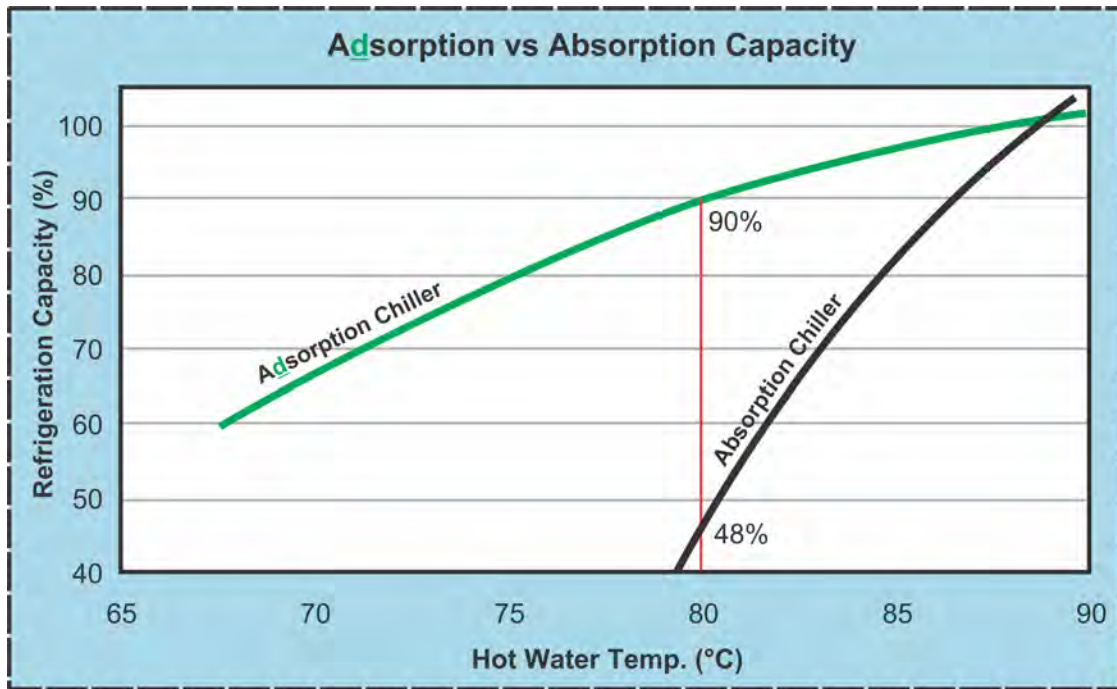


DIMENSIONAL DATA & DUCT CONNECTION



ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

PERFORMANCE CHART



High Efficiency even at Low Hot Water temperature

FEATURE OVERVIEW

Factors	Adsorption Chillers	Absorption Chillers
Life Expectancy	Greater than 20 Years	7 to 9 Years
Maintenance	Negligible Maintenance	Require High Maintenance
Regeneration Temperature (Hot Water)	Down to 50°C (122°F)	Shuts down at 82°C (180°F), Needs Back-up Heater
Desiccant Used	Special Silica Gel (Inert)-S2	Lithium Bromide (Highly Corrosive)
Replacement Requirements (Periodic Maintenance)	Not Required	Heat Exchangers, Boilers, Absorbent Replacement Required

Additional Benefits

- Start up Times 5 to 7 Minutes compared to 15 minutes for absorption
- Chilled Water output 4°C-13°C (40°-55°F)
- No crystallization, corrosion, hazardous leaks, or chemical disposal issues
- Vibration or noise & simple and continuous operations
- Quite High COP (Coefficient of Performance)
- Versatile operation – Can be used for a wide range of Industrial and commercial application.

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