

ADSORPTION CHILLER

ADC Series F-FRAME

FEATURE HIGHLIGHTS

- * Ultra low electricity consumption
 - * Zero ozone depletion potential
 - * No dangerous chemicals
 - * Very few moving parts
- * Ease of maintenance
 - * Advanced microprocessor control
 - * Designed for outdoor installation
 - * Wide temperature ranges allowed

MODEL	F-330	F-300	F-250	F-200
Rated Capacity (Tonnes)	335	305	254	203

Chilled Water

Inlet Temperature (°C)	12.8	12.8	12.8	12.8
Outlet Temperature (°C)	7.2	7.2	7.2	7.2
Flow Rate (l/min)	3043	2771	2309	1843
Pressure Drop (mtr. H ₂ O)	8.8	7.9	6.1	4.6
Connection Size: (mm)	200	200	200	200

Condenser Water

Inlet Temperature (°C)	29	29	29	29
Outlet Temperature (°C)	35	35	35	35
Flow Rate (l/min)	9167	8346	6949	5556
Pressure Drop (mtr. H ₂ O)	12.8	11.3	8.8	6.7
Connection Size: (mm)	250	250	250	250

Hot Water

Inlet Temperature (°C)	90.6	90.6	90.6	90.6
Outlet Temperature (°C)	84	84	84	84
Flow Rate (l/min)	5072	4618	3846	3073
Pressure Drop (mtr. H ₂ O)	6.1	5.5	4.3	3.0
Connection Size: (mm)	200	200	200	200

*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.....1.3 kW
 Maximum kW Consumption.....2.4 kW

Air Supply

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

Unit Dimensions*

Width (mm).....3658
 Length (mm).....5334
 Height (mm).....3505

*with cabinets mounted on the side as shown

Weight

Empty (kg).....21319
 Operating (kg).....24040

Refrigerant type.....Water (H₂O)

Operating Range

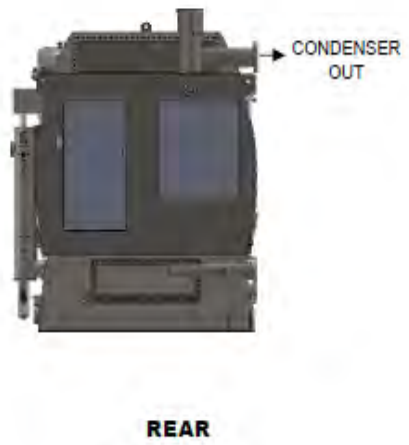
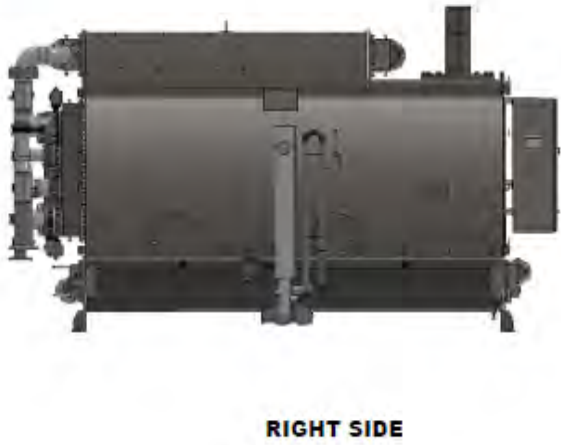
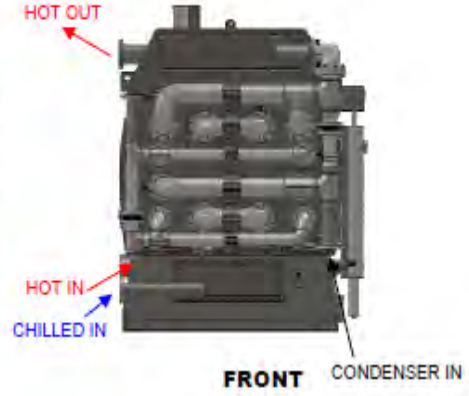
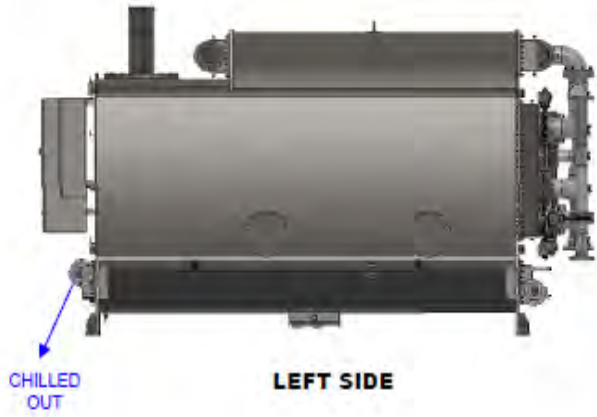
Chilled Water (°C).....3 to 20
 Hot Water (°C).....52 to 93
 Condenser Water (°C).....10 to 39

Maximum Pressure (bar)..... 4.82

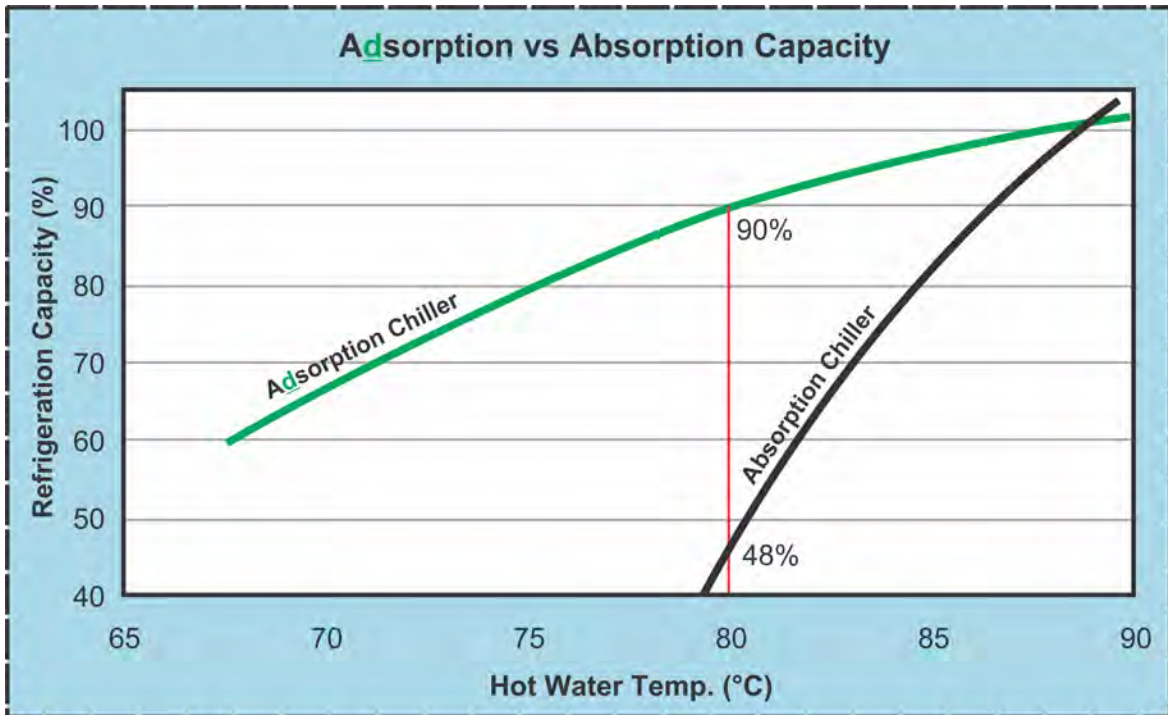
*Maximum pressure 4.82 for hot, chilled, & Condenser water



DIMENSIONAL DATA & DUCT CONNECTION



PERFORMANCE CHART



High Efficiency even at Low Hot Water temperature

FEATURE OVERVIEW

Main Benefits

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)-S ₂	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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