

ADSORPTION CHILLER

ADC Series D-FRAME

FEATURE HIGHLIGHTS

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

MODEL	D-75	D-60	D-50
Rated Capacity (Tonnes)	76	61	51

Chilled Water

Inlet Temperature (°C)	12.8	12.8	12.8
Outlet Temperature (°C)	7.2	7.2	7.2
Flow Rate (l/min)	689	553	462
Pressure Drop (mtr. H ₂ O)	8.5	6.4	5.2
Connection Size: (mm)	100	100	100

Condenser Water

Inlet Temperature (°C)	29	29	29
Outlet Temperature (°C)	35	35	35
Flow Rate (l/min)	2078	1669	1397
Pressure Drop (mtr. H ₂ O)	11.9	8.8	7.0
Connection Size: (mm)	125	125	125

Hot Water

Inlet Temperature (°C)	90.6	90.6	90.6
Outlet Temperature (°C)	84	84	84
Flow Rate (l/min)	1151	924	772
Pressure Drop (mtr. H ₂ O)	4.3	3.4	2.4
Connection Size: (mm)	100	100	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).....2159
 Length (mm).....5055
 Height (mm).....2921

*with cabinets mounted on the side as shown

Weight

Empty (kg).....11793
 Operating (kg).....13154

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

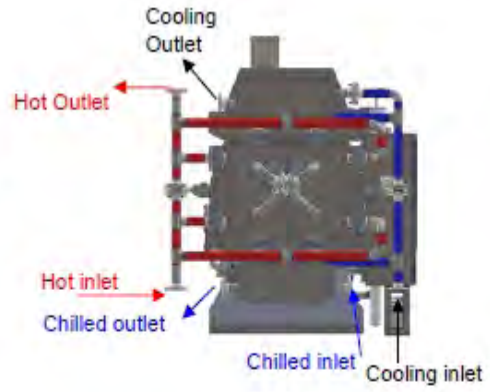
*Maximum pressure 4.82 for hot, chilled,& condenser water



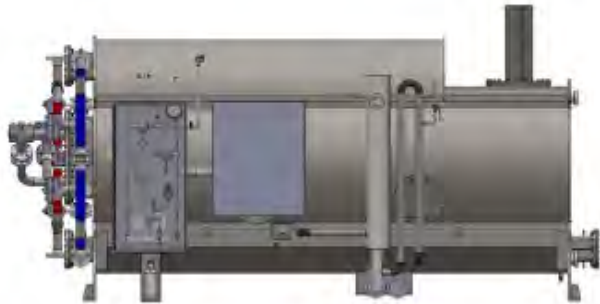
DIMENSIONAL DATA & DUCT CONNECTION



LEFT SIDE



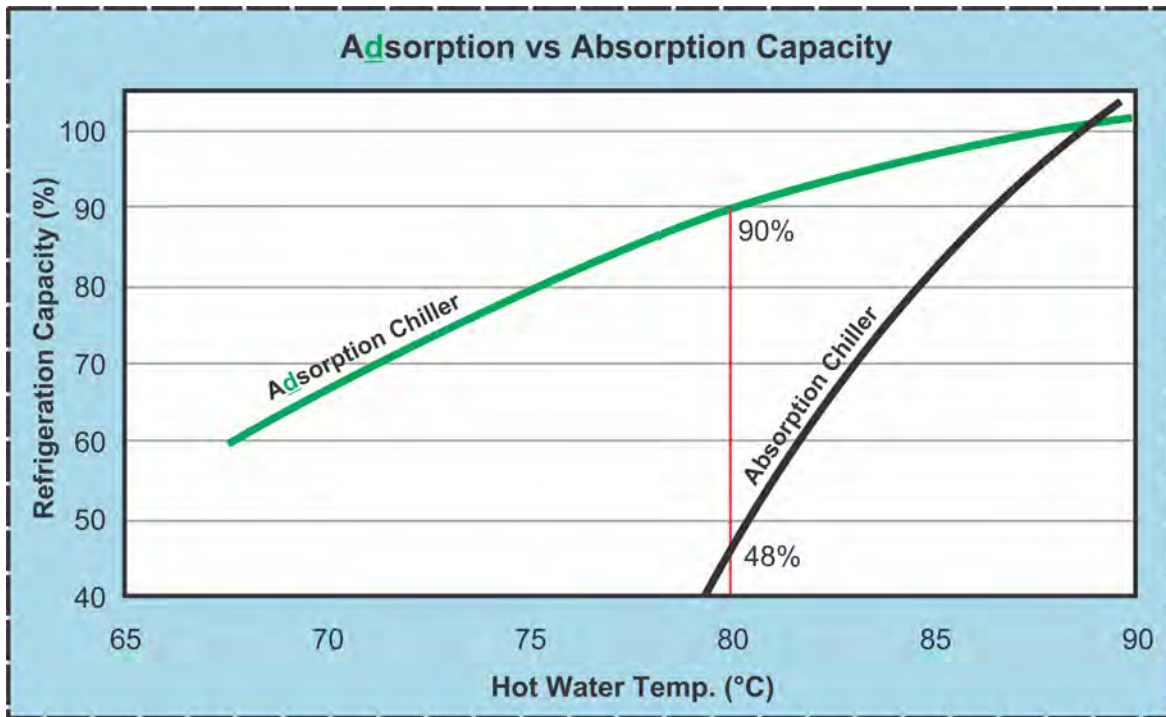
FRONT



RIGHT SIDE

See drawings for specific piping connections and sizes.

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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