

ADSORPTION CHILLER

ADC Series C-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	C-40	C-30	C-20	C-10
Rated Capacity (Tonnes)	41	30	20	10

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)	371	273	182	91
Pressure Drop (mtr. H ₂ O)	8.5	5.8	3.4	1.2
Connection Size: (mm)	65	65	65	65

Condenser Water

Inlet Temperature (°C)	29	29	29	29
Outlet Temperature (°C)	35	35	35	35
Flow Rate (l/min)	1120	821	549	273
Pressure Drop (mtr. H ₂ O)	11.9	7.9	4.6	1.8
Connection Size: (mm)	100	80	65	65

Hot Water

Inlet Temperature (°C)	90.6	90.6	90.6	90.6
Outlet Temperature (°C)	84	84	84	84
Flow Rate (l/min)	621	454	303	151
Pressure Drop (mtr. H ₂ O)	4.3	2.7	1.8	0.6
Connection Size: (mm)	80	65	65	65

*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.....0.6 kW
 Maximum kW Consumption.....1.7 kW

Air Supply

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

Unit Dimensions*

Width (mm).....2032
 Length (mm).....4826
 Height (mm).....2388

*with cabinets mounted on the side as shown

Weight

Empty (kg).....7250
 Operating (kg).....8165

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

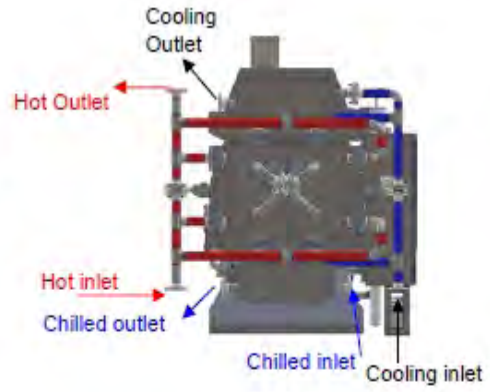
*Maximum pressure 4.82 for hot, chilled,& condenser water



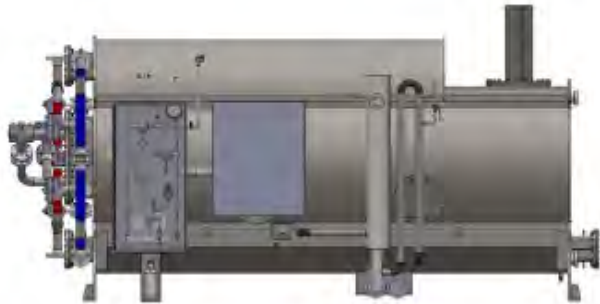
DIMENSIONAL DATA & DUCT CONNECTION



LEFT SIDE



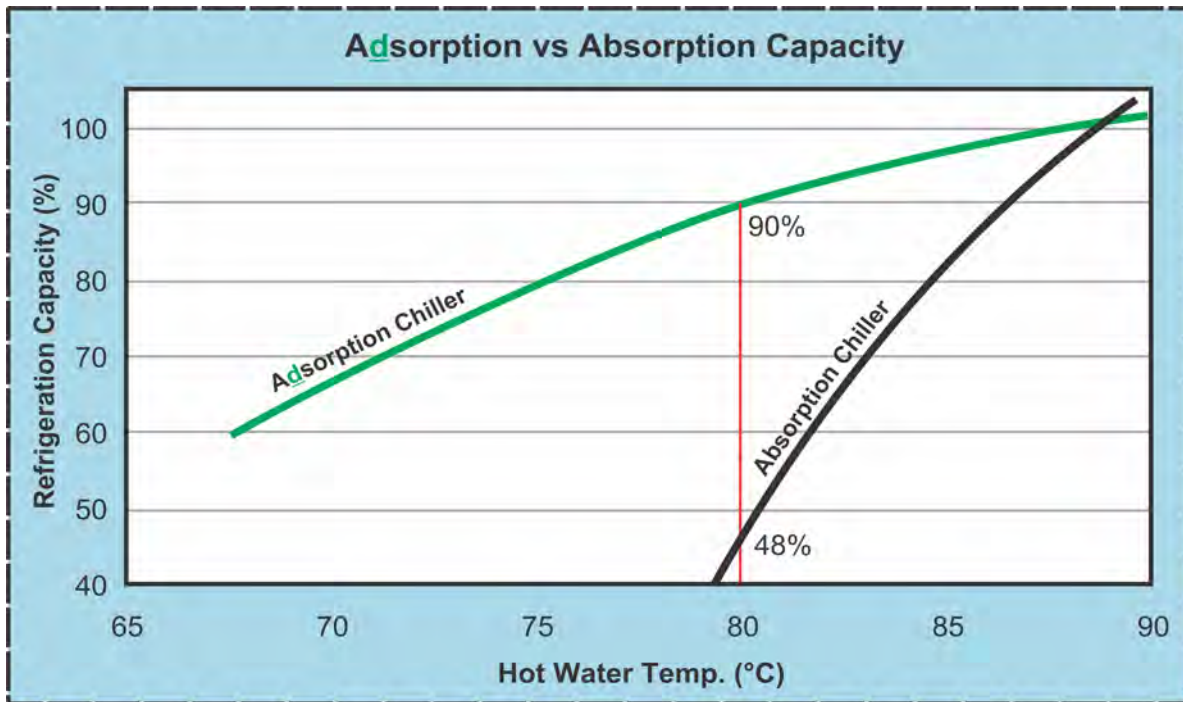
FRONT



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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