

REFRIGERATED RE-CIRCULATING FLUID CHILLERS

OTX Series – Extreme Environment Air Cooled Outdoor Chiller

Ambient operating temperature ranges
from -40°C Up to 55°C



Model OTX-1.5A shown

Features:

- 0.75 to 7.5 Tons (2.5 to 26.5 kW) of cooling capacity
- Opti Temp patented *advanced refrigeration control circuitry* (ARC) standard
- Heavy-duty electrical components, switches, motor starters and lights
- NEMA 4 S.S. or epoxy coated steel weather proof electrical enclosure
- All stainless steel cabinetry or epoxy coated steel prevents rusting in harsh outdoor conditions
- Removable cover and side access panels
- S.S. brazed plate evaporator
- Micro-processor based PID auto tuning controller with digital display
- Standard dual frequency power input
- CE compliance
- Stainless steel male NPT process connections
- One year limited warranty
- Designs tested and proven in Environmental Chamber for maximum and minimum ambient conditions

Models OTX-.75A to OTX-7.5A 0.75 to 7.5 Tons, 2.5 to 26.5 kW

Options:

Controls / Interlocks

- PLC controller
- RS232 and RS485 communication
- Ethernet ready controller
- Remote start/stop
- Audible alarm with silence
- Visual alarm beacon
- Remote control
- Fluid monitoring and control devices

Electrical

- 24V control systems
- Phase monitor
- Power cord extension
- NRTL certifications

Mechanical

- Specific ambient ranges available
- Multiple pump upgrades
- Specialty wetted construction materials
- Stainless steel process filter housing w/30micron particle filter cartridge
- Heater options-5kW Standard, 15kW Optional
- Anti-drain back prevention
- Remote temperature sensing
- Fluid circuit insulation
- Process fluid manifolds
- Interconnect Hose
- Extended warranty

Contact Information:

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Please contact our sales & applications department
for a more complete list of available options.

REFRIGERATED RE-CIRCULATING FLUID CHILLERS

Extreme Environment Air Cooled Outdoor Chiller Specifications⁽¹⁾

Description		OTX-.75A Extended Ambient	OTX-1.5A Standard Ambient	OTX-1.5A Extended Ambient	OTX-1.5A Extreme Ambient	OTX-3.0A Standard Ambient	OTX-3.0A Extended Ambient	OTX-3.0A Extreme Ambient
Min/Max Ambient	°C	-40° to 49°C	-40° to 40°C	-40° to 49°C	-40° to 55°C	-40° to 40°C	-40° to 49°C	-40° to 55°C
Standard Flow Rating ⁽²⁾	GPM at PSI	4.4 60	10.8 90	10.8 90	10.8 90	19.8 90	19.8 90	19.8 90
Fluid Temp. Range	°C	7°C to 40°C	7°C to 40°C	7°C to 40°C	7°C to 40°C	7°C to 40°C	7°C to 40°C	7°C to 40°C
Standard Pump ⁽³⁾	HP	0.33	1	1	1	3	3	3
Standard Pump	Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Construction (Wetted)	Materials	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous
Connection	MPT	¾"	1"	1"	1"	1"	1"	1"
Capacity ⁽⁴⁾	KW	2.5	5	5	5	10.5	10.5	10.5
	BTU/hr	8,530	17,000	17,000	17,000	36,100	36,100	36,100
	tons	0.75	1.4	1.4	1.4	3	3	3
Compressor	HP	.75	1.5	1.5	1.5	3.5	3.5	3.5
	Type	Hermetic	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Full Load Amps ⁽⁵⁾	230/1/60	23.5						
	230/3/60		26	26	26	38	38	38
	460/3/60		13	13	13	19	19	19
Dimensions	Height	25.75"	22"	26"	26"	26"	32"	32"
	Width	24.75"	30"	38.75"	38.75"	38.75"	32.5"	32.5"
	Depth	29.75"	33.5"	52.5"	52.5"	52.5"	61.5"	61.5"
Heaters	Standard	5kW	5kW	5kW	5kW	5kW	5kW	5kW
	Optional	15kW	15kW	15kW	15kW	15kW	15kW	15kW
Dry Weight	Pounds	285	415	480	515	525	660	675
Internal Reservoir	Gallon	2.5	5.5	5.5	5.5	5.5	5.5	5.5
Temp Stability ⁽⁶⁾	°C	± 0.1°C	± 0.1°C	± 0.1°C	± 0.1°C	± 0.1°C	± 0.1°C	± 0.1°C
Refrigerant	Type	R134A	R134A	R134A	R134A	R134A	R134A	R134A
Ref. Control Circuit	Capacity Control	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%
Cabinet/Electrical Box Material	S.S./Epoxy Coated Steel	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.

- 1) As a result of continuous improvement efforts, specifications are subject to change without notice or liability. (2) Pump pressures at pump discharge. (3) Pump curves provided upon request. (4) Capacity based on 55 °F LWT and 95 °F ambient air temperature. Capacities may be ± 5% as reserved by compressor manufacturer. (5) Full load amps for models with standard pumps. Consult applications engineering for models with optional pumps. Full load amps must be used for sizing disconnects and supply wiring. Contact factory for 50 Hz applications engineering. (6) Cooling stability only. Optional heating stability ± 1.0°C

REFRIGERATED RE-CIRCULATING FLUID CHILLERS

Extreme Environment Air Cooled Outdoor Chiller Specifications⁽¹⁾

Description		OTX-5.0A Standard Ambient	OTX-5.0A Extended Ambient	OTX-5.0A Extreme Ambient	OTX-7.5A Standard Ambient	OTX-7.5A Extended Ambient	OTX-7.5A Extreme Ambient
Min/Max Ambient	°C	-40° to 40°C	-40° to 49°C	-40° to 55°C	-40° to 40°C	-40° to 49°C	-40° to 55°C
Standard Flow Rating ⁽²⁾	GPM at PSI	19.8 90	19.8 90	19.8 90	19.8 90	19.8 90	19.8 90
Fluid Temp. Range	°C	7°C to 40°C	7°C to 40°C	7°C to 40°C	7°C to 40°C	7°C to 40°C	7°C to 40°C
Standard Pump ⁽³⁾	HP	3	3	3	3	3	3
Standard Pump	Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Construction (Wetted)	Materials	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous
Connection	MPT	1"	1"	1"	1"	1"	1"
Capacity ⁽⁴⁾	KW	17.5	17.5	17.5	26.5	26.5	26.5
	BTU/hr	60,000	60,000	60,000	90,500	90,500	90,500
	tons	5	5	5	7.5	7.5	7.5
Compressor	HP	5	5	5	7.5	7.5	7.5
	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Full Load Amps ⁽⁵⁾	230/3/60	48	48	48	60	64	64
	460/3/60	24	24	24	30	32	32
Dimensions	Height	32"	54.5"	54.5"	54.5"	54.5"	54.5"
	Width	32.5"	35"	35"	35"	35"	35"
	Depth	61.5"	69"	69"	69"	69"	69"
Heater	Standard	5kW	5kW	5kW	5kW	5kW	5kW
	Optional	15kW	15kW	15kW	15kW	15kW	15kW
Dry Weight	Pounds	675	820	835	850	875	890
Internal Reservoir	Gallon	5.5	20	20	20	20	20
Temp Stability ⁽⁶⁾	°C	± 0.1°C	± 0.1°C	± 0.1°C	± 0.1°C	± 0.1°C	± 0.1°C
Refrigerant	Type	R134A	R134A	R134A	R134A	R134A	R134A
Ref. Control Circuit	Capacity Control	0-100%	0-100%	100%	0-100%	100%	0-100%
Cabinet/Electrical Box Material	S.S./Epoxy Coated Steel	S.S.	Epoxy Coated Steel	Epoxy Coated Steel	Epoxy Coated Steel	Epoxy Coated Steel	Epoxy Coated Steel

- 1) As a result of continuous improvement efforts, specifications are subject to change without notice or liability. (2) Pump pressures at pump discharge. (3) Pump curves provided upon request. (4) Capacity based on 55 °F LWT and 95 °F ambient air temperature. Capacities may be ± 5% as reserved by compressor manufacturer. (5) Full load amps for models with standard pumps. Consult applications engineering for models with optional pumps. Full load amps must be used for sizing disconnects and supply wiring. Contact factory for 50 Hz applications engineering. (6) Cooling stability only. Optional heating stability ± 1.0°C