

# Low Temperature Chiller

## Air or Water Cooled



Made in the USA, the Budzar Industries Low Temperature Chiller is designed for processes requiring a cooling capacity to -40°F and a capacity of 558 tons. Temperatures down to -80°C are available upon request.

Whether you require Air-Cooled, Water-Cooled, Indoor, Outdoor, Explosion Proof, Instrument Selection, Space Requirement, or Specific Refrigerant the Budzar Industries Low Temperature Chiller is designed and constructed to meet your exact specifications.

Each Low Temperature Chiller features a rugged Copeland Low Temperature Semi-Hermetic Screw Style Compressor as the heart of the refrigeration circuit with an economizer to boost capacity and increase efficiency.



engineering  
**PRECISION**

### COMPARE THESE FEATURES

- Each Budzar Industries Unit is designed to maximize the productivity of your process. Budzar Industries quality and reliability provide excellent value for each dollar invested
- Temperature Range to -40°C to with sizes ranging to 400 Tons. Lower temperatures available upon request.
- Exclusive use of quality equipment: Semi-Hermetic Screw Compressors, Carel PLC, A.S.M.E Coded Condenser and Evaporator
- Compressor Economizers for additional Low Temperature Capacity and increased efficiency
- Suction Discharge Service Valves, Crankcase Heaters
- Heavy Duty Channel Frame Rails and Structural Frame Cross Member for Long Service Life
- Modulating Hot Gas By Pass Valve for additional capacity control
- Pressure Safety "Pressure Stat" prevents freezing
- Sight glass/ Moisture Indicator, Core-Type Filter/Drier
- PLC Control and display of Refrigerant High and Low Pressures, Pump Flow, Set Point and Actual Temperatures, Superheat and Subcooling.
- PLC Constantly monitors either conditions and adaptively adjusts control parameters to correct for usses and keep the chiller running
- All Fault conditions are displayed in clear English
- Electronic Expansion Valve, Liquid Line Solenoid and Shut-Off Valve
- Replaceable Core Filter Drier
- Freeze Stat
- Compressor Fusing
- High Pressure Safety Controls
- **Made in the USA**

process  
**TEMPERATURE**  
control

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MODEL	RATED CAPACITY TONS*				COMPRESSORS**		CHILLER FLA (460V 3 Ph, 60 Hz)
	-10°C (14°F)	-20°C (-4°F)	-30°C (-22°F)	-40°C (-40°F)	Number	HP (each)	
<b>LTW-040</b>	32.0	23.0	15.5	9.5	1	40	67
<b>LTW-050</b>	37.5	26.5	18.0	11.5	1	50	81
<b>LTW-075</b>	57.8	40.3	27.0	17.3	1	75	146
<b>LTW-100</b>	75.0	53.0	36.0	23.0	2	50	160
<b>LTW-125</b>	93.1	67.9	46.0	31.0	1	125	216
<b>LTW-150</b>	115.5	80.5	54.0	34.5	2	75	290
<b>LTW-200</b>	152.0	105.0	69.8	48.0	3	70, 70, 60	348
<b>LTW-250</b>	186.2	135.8	92.1	62.0	2	125	434
<b>LTW-300</b>	231.0	161.0	108.0	69.0	4	75	578
<b>LTW-375</b>	279.3	203.7	138.1	92.9	3	125	650
<b>LTW-500</b>	372.4	271.6	184.1	123.9	4	125	870
<b>LTW-625</b>	465.5	339.5	230.1	154.9	5	125	1082
<b>LTW-750</b>	558.6	407.4	276.2	185.9	6	125	1300

\* Capacity based on 10 deg. C (50 deg.F) condenser water supply temperature

Capacity modulation 100% down to 20% : Single compressor units include modulating valve hot gas by-pass. Multiple compressor units use compressor unloader/compressor cycling.

\*\* Compressor style: screw, semi-hermetic

### Typical Water Cooled Chiller Schematic

