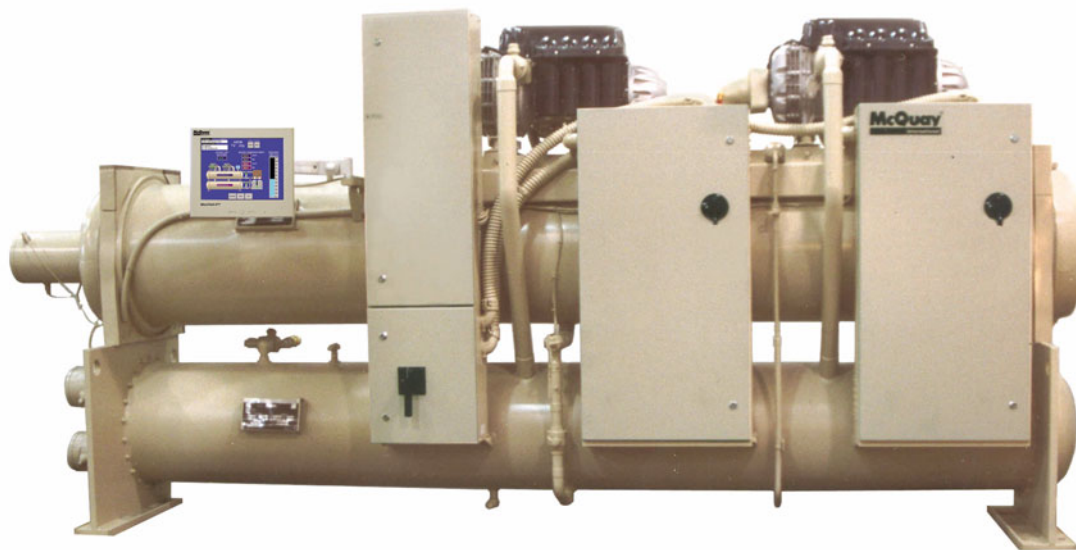


Magnitude™ Water-Cooled Frictionless Centrifugal Chillers—145 to 550 Tons

- Energy savings with part load performance as low as 0.31 kW/ton IPLV; full load performance as low as 0.62 kW/ton
- Quietest sound levels in the industry with sound pressure ratings as low as 76 dBA per ARI Standard 575
- Lower maintenance costs because the frictionless, magnetic bearing compressor design eliminates the oil support system
- R-134a refrigerant with no ozone depletion potential or phase-out schedule
- Controls flexibility—MicroTech® II controls with our Open Choices™ feature for easy integration with the BAS of your choice

For more detail, refer to Catalog 602.
For the most current information, refer to www.mcquay.com.



Magnitude Chiller—145 to 400 tons,
Model WMC, R-134a



Magnetic bearing, frictionless compressor technology delivers unsurpassed efficiency by eliminating the high friction losses of typical centrifugal compressors.



Available LONMARK certified



Modbus®

Magnitude™ Magnetic Bearing Centrifugal Chiller - 400 to 550 Tons

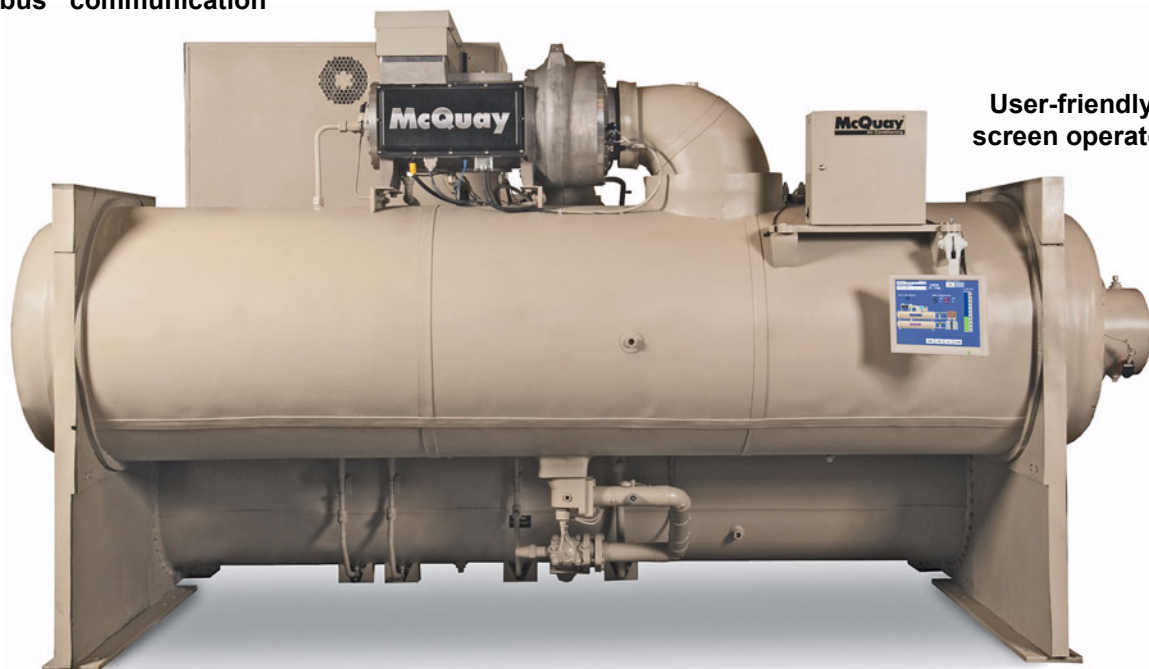
- World class efficiency at full and part load
- Green - Contributes to LEED® Green Building Rating System points for enhanced refrigerant management and optimized energy efficiency
- Small unit footprint makes it ideal for retrofit and replacement projects
- Quiet operation for sound sensitive environment
- Uses R-134a refrigerant which has no ozone depletion potential and no phase-out schedule
- Open Choices™ control feature
- Magnetic bearing compressor eliminates the need for an oil support system and its associated maintenance costs
- Integrated variable frequency drive for optimized part load performance

For more detail, refer to Catalog 604.
For the most current information, refer to www.mcquay.com.

Easy integration with your choice of BAS vendors using LONWORKS®, BACnet®, or Modbus® communication

Magnetic bearing compressor simplicity with removal of oil handling system

Part load performance as low as 0.32 kw/ton IPLV



User-friendly touch screen operator panel

R-134a refrigerant has no phaseout schedule and no ozone depletion potential

Magnitude Chiller—400 to 550 tons, Model WME, R-134a

Unmatched unloading capability with integrated VFDs



Available LONMARK certified



Modbus®

Water-Cooled Chillers

WMC Evaporator Physical Data

WMC model	Evaporator model	Tube length	Unit refrigerant charge lb (kg)	Evaporator water volume gal (L)	Insulation area sq ft (m ²)	Number of relief valves
145S, 145D	E2209	9 ft.	550 (249)	38 (145)	66 (6.1)	1
150D	E2212	12 ft.	800 (363)	45 (170)	90 (8.3)	1
250D	E2609	9 ft.	600 (272)	61 (231)	76 (7.1)	1
290D	E2612	12 ft.	1100 (500)	72 (273)	102 (9.4)	1
400D	E3012	12 ft.	1240 (562)	88 (336)	114 (11)	1

1. Refrigerant charge is approximate since the actual charge depends on other variables. Actual charge is shown on unit nameplate.
2. Water capacity is based on standard tube configuration and standard dished heads.

WMC Condenser Physical Data

WMC model	Condenser model	Tube length	Maximum pumpdown capacity lb (kg)	Evaporator water volume gal (L)	Number of relief valves
145S, 145D	C2009	9 ft.	728 (330)	47 (147)	2
150D	C2012	12 ft.	971 (440)	62 (236)	2
250D	C2209	9 ft.	883 (401)	50 (223)	2
290D	C2212	12 ft.	1174 (533)	72 (273)	2
400D	C2612	12 ft.	1174 (533)	111 (419)	2

1. Condenser pumpdown capacity based on 90% full at 90°F.
2. Water capacity is based on standard configuration and standard heads and can be less with lower tube counts.

WMC Overall Dimensions, 2-Pass Vessels

Data	WMC 145S, 145D		WMC 150		WMC 250		WMC 290		WMC 400	
	Same end	Opp. end	Same end	Opp. end	Same end	Opp. end	Same end	Opp. end	Same end	Opp. end
Length, in (mm)	135 (3429)	141 (3581)	171 (4343)	177 (4496)	135 (3429)	141 (3581)	171 (4343)	171 (4343)	169 (4292)	172 (4368)
Width, in (mm)	39 (991)	39 (991)	38 (965)	38 (965)	44 (1117)	44 (1117)	44 (1117)	44 (1117)	47 (737)	47 (737)
Height, in (mm)	80 (2032)	80 (2032)	80 (2032)	80 (2032)	83 (2108)	83 (2108)	83 (2108)	83 (2108)	93 (2351)	93 (2351)
Overall shipping weight, lb (kg)	5399 (2449)-WMC145S 6252 (2836)-WMC145D		7380 (3347)		7525 (3414)		10,953 (4923)		12,629 (5728)	

For the most current information on the Magnitude WME unit, please visit www.mcquay.com.