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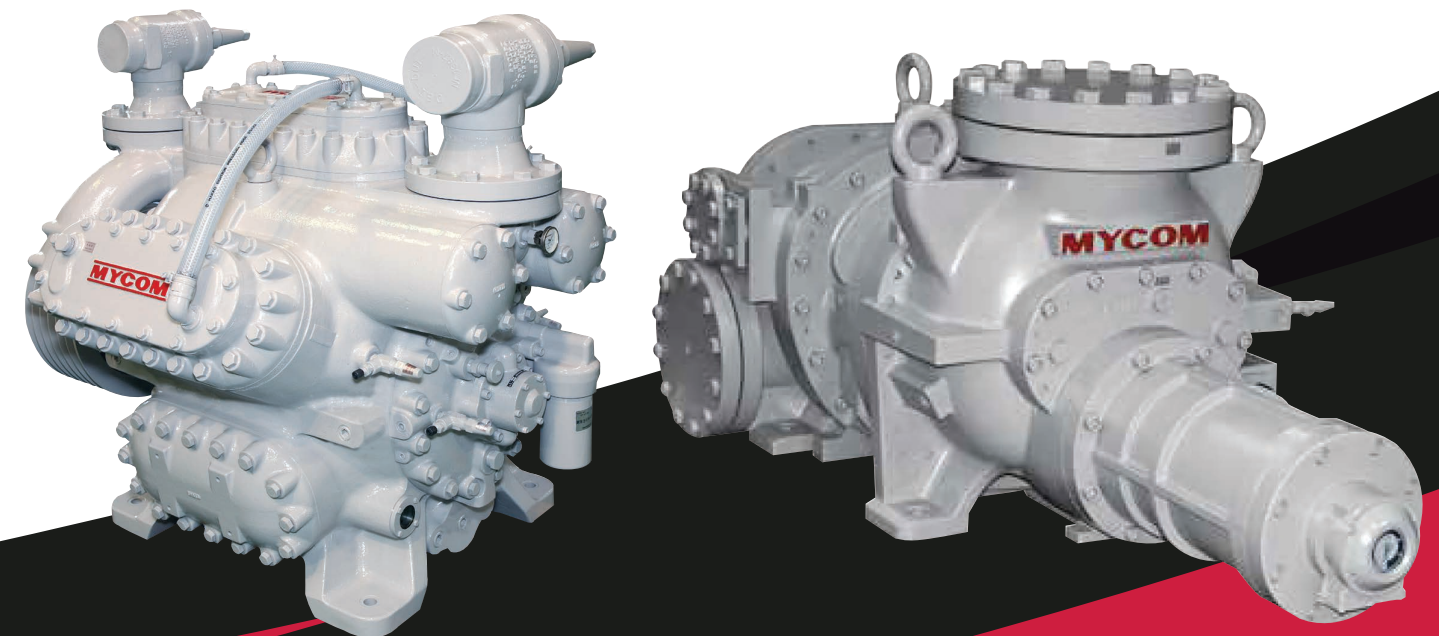
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MYCOM

Products Handbook

Screw & Reciprocating Compressors, Control
Panels, Oil Pumps, and OEM Parts



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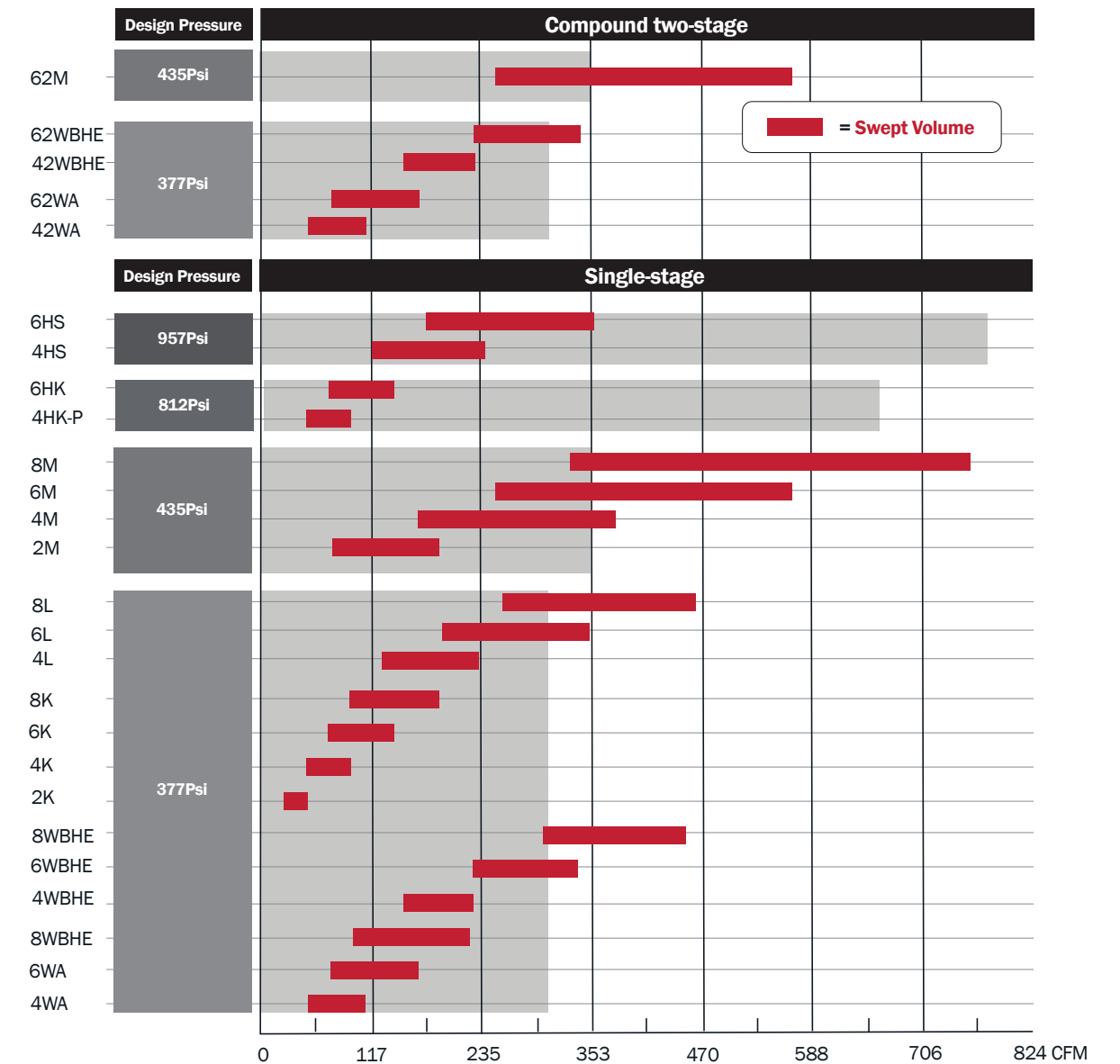
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RECIPROCATING COMPRESSORS



- M-series
- K-series
- HS-series
- HK-series
- WBHE-series
- WA-series
- L-series

For 95 years since Mayekawa started manufacturing piston compressors, Mayekawa has listened to the customers' demand to advance its technology to develop MYCOM Reciprocating Compressors. Mayekawa has a full-lineup of compressors that cover a wide range of applications with various pressures and volumes.



Compound two-stage
 62M-series: 660-1500rpm / 42/62WBHE-series: 800-1200rpm / 42/62WA-series: 650-1450rpm

Single-stage
 4/6HS-series: 750-1500rpm / 4/6HK-series: 900-1800rpm / 2-8M-series: 660-1500rpm / 4-8L-series: 970-1750rpm / 2-8K-series: 900-1800rpm / 4-8WBHE-series: 800-1200rpm / 4-8WA-series: 650-1450rpm

WBHE-SERIES

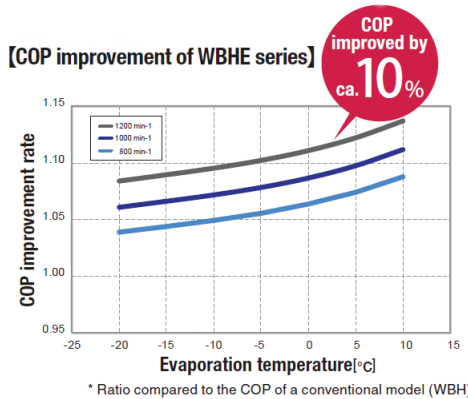
Reciprocating Compressor [Single Stage] Open Type & [Two Stage] Open Type



*Some optional items are included in this photo.

New Design with Enhanced Performance
Redesigned valve structure and reduced mechanical losses have achieved further improvements in performance compared to conventional models.

[COP improvement of WBHE series]



Applications

With a high-pressure design suitable for use in air-cooled condensing units for fluorocarbon refrigerants, the model operates over a wide range of temperature and serves in large-scale refrigerating and freezing applications.

[Usable Refrigerants]

Natural Refrigerants
Ammonia
Propane

Fluorocarbon Refrigerants
R134a
R404A
R507A
R23

Applications

A long-selling model with industry-leading reliability and track record, designed for tough applications subject to load fluctuation.

Specifications

Model ¹ (N/P/F)		4WBHE	6WBHE	8WBHE	42WBHE	62WBHE
Item						
Refrigerant		Ammonia / Propane / HFCs (R134a, R404A, R507A, R23 ^{*2})			Ammonia / HFCs (R404A, R507A)	
Compressor Type		Reciprocating, Open Type				
Number of Cylinders		4	6	8	Low Stage: 4 High Stage: 2	Low Stage: 6 High Stage: 2
Bore		5.1"/130mm				
Stroke		3.9"/100mm				
Displacement ^{*2}	CFM	181.9	273.1	363.7	Low Stage: 181.9 High Stage: 91.2	Low Stage: 273.1 High Stage: 91.2
Displacement ^{*2}	m ³ /h	309	464	618	Low Stage: 309 High Stage: 155	Low Stage: 464 High Stage: 155
Rotation Speed	rpm	800-1200 ^{*4}				
Drive Method		Direct Drive / V-belt				
Capacity Control	%	100/50	100/66/33/0 ^{*5}	100/75/50/25/0 ^{*5}	100/50	100/66/33

*1. Specify the refrigerant by adding a prefix to the type code (N = Ammonia / P = Propane / F = Fluorocarbons).

*2. If R23 is to be used as the refrigerant, the machine will come with special specifications. Please contact us for detailed information.

*3. Displacement at 970 rpm

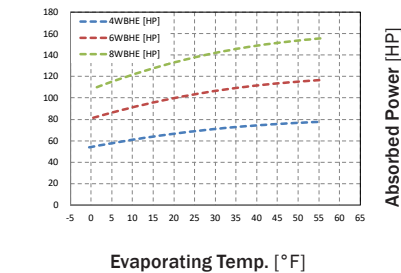
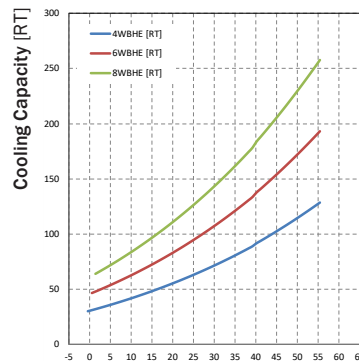
*4. The range of rotation speed varies by operating conditions. Please refer to the ranges of use stated in the operating instructions.

*5. The capacity control value of 0% can be realized by an optional feature. Please contact us for detailed information.

Performance charts

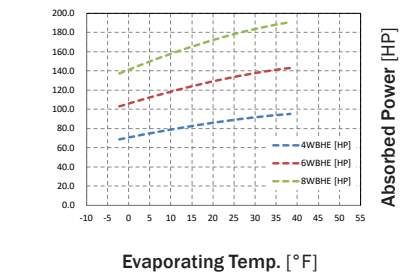
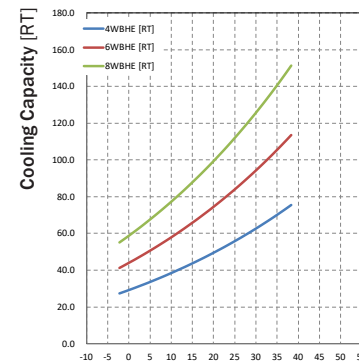
Ammonia

Condensing temp: 104°F Rotation speed: 970rpm
Suction superheat: 0°F Liquid Subcooling: 9°F



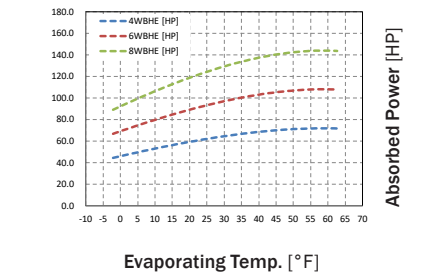
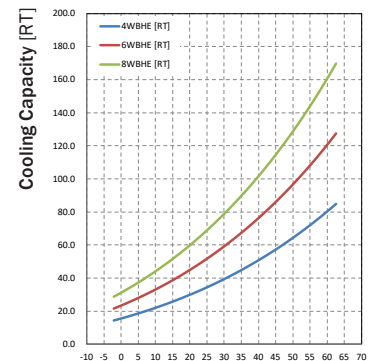
R404A

Condensing temp: 104°F Rotation speed: 970rpm
Suction superheat: 36°F Liquid Subcooling: 9°F



R134a

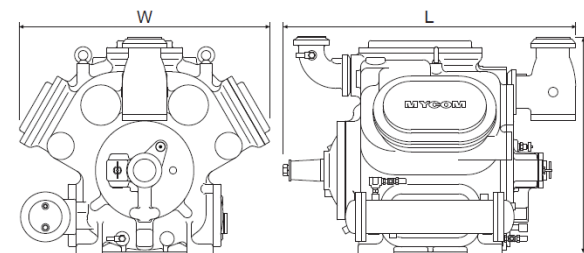
Condensing temp: 104°F Rotation speed: 970rpm
Suction superheat: 36°F Liquid Subcooling: 9°F



*Please consult us for compound performance charts or further details.

Outer dimensions

[Air cooled type (HFCs)]

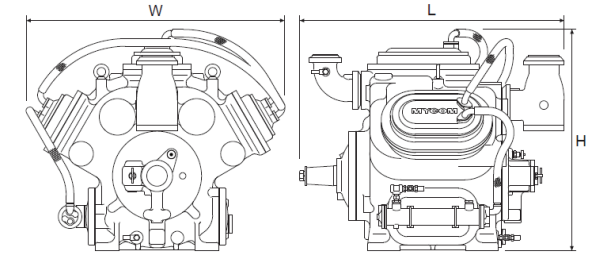


Model (P/F)	Weight	W	L	H
4WBHE	1929lb/875kg	39"/990mm	42"/1075mm	36"/920mm
6WBHE	2546lb/1155kg	42"/1060mm	49"/1240mm	36"/915mm
8WBHE	2745lb/1245kg	43"/1095mm	49"/1240mm	36"/905mm
42WBHE	2557lb/1160kg	42"/1065mm	48"/1225mm	35"/900mm
62WBHE	2844lb/1290kg	43"/1100mm	49"/1240mm	37"/950mm

* The outer dimension drawings illustrate the 6-cylinder model.

* The stop valve, companion flange, flywheel, V-pulley, and safety valve are not included. * The oil cooler is included.

[Water cooled type (Ammonia)]



Model (N)	Weight	W	L	H
4WBHE	1962lb/890kg	41"/1050mm	42"/1075mm	36"/920mm
6WBHE	2601lb/1180kg	48"/1210mm	49"/1240mm	41"/1035mm
8WBHE	2822lb/1280kg	50"/1280mm	49"/1240mm	42"/1060mm
42WBHE	2624lb/1190kg	48"/1210mm	48"/1225mm	41"/1035mm
62WBHE	2932lb/1330kg	51"/1285mm	49"/1240mm	42"/1065mm