

Model YVAA Air-Cooled Screw Compressor Liquid Chillers with Variable Speed Drive Style A

150 ton to 575 ton
525 kW to 2000 kW
Two Compressor
50 Hz and 60 Hz
R-134a or R-513A

Model #: YVAA0500JPV46BAVMXXXSAXLXXXX6044XOFXXV209W1SXDA2BMXVDXNXXXXXXXXBXSXX
Serial #: 82012A43869523

Year: 2024
Size: 500 Tons



Shipping Weight: 26,383 lbs

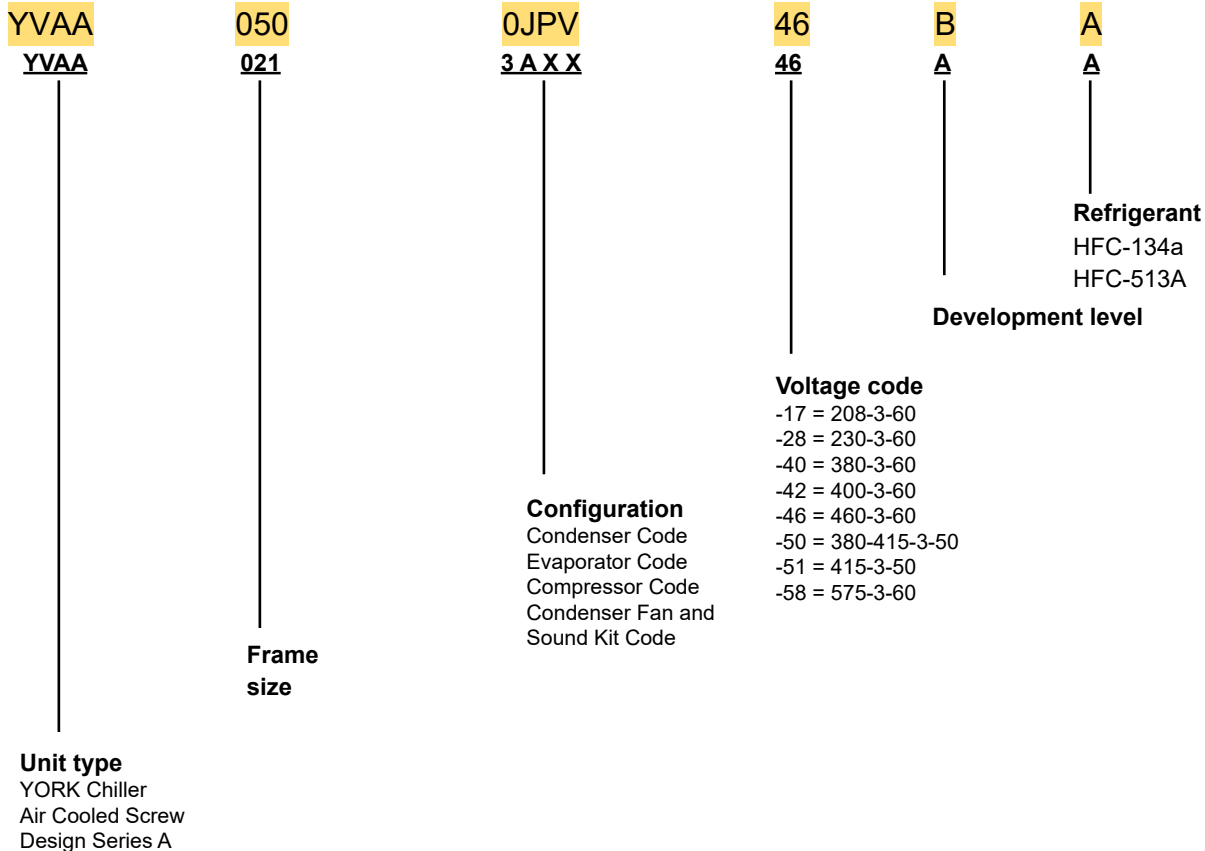
L: 50'

W: 7' 5"

H: 7' 11"



Nomenclature



Approvals

- ASME Boiler and Pressure Vessel Code – Section VIII Division 1
- AHRI Standard 550/590 and 551/591
- UL 1995 – Heating and Cooling Equipment
- ASHRAE 15 – Safety Code for Mechanical Refrigeration
- ASHRAE Guideline 3 – Reducing Emission of Halogenated Refrigerants in Refrigeration and Air-Conditioning Equipment and Systems
- N.E.C. – National Electrical Code
- OSHA – Occupational Safety and Health Act

Physical data - Microchannel coil - English (SI) (cont'd)

The data shown in this table is applicable to selected configurations. Other configurations are available through our configuration and selection software. Contact your nearest Johnson Controls sales office for the chiller configuration that best matches your specific needs.

Table 2 - Physical data - Microchannel coil (cont'd)

UNIT FRAME	39	41	42	42	44	47	48	49	50	52
CONDENSER CODE	8	3	5	8	3	5	3	0	0	3
EVAPORATOR CODE	J	H	H	J	G	J	G	K	J	J
GENERAL UNIT DATA										
Number of independent refrigerant circuits	2									
Refrigerant charge: R-134a or R-513A Circuit.-1/Circuit.-2 lb (kg)	435/360 (197/163)	420/345 (191/156)	440/365 (200/166)	435/385 (197/175)	330/355 (150/161)	405/430 (184/195)	345/370 (156/168)	350/375 (159/170)	365/390 (166/177)	405/430 (184/195)
Oil Charge: Circuit.-1/ Circuit.-2 gal (L)	4.1/4.1 (15.5/ 15.5)	4.0/4.0 (15.1/ 15.1)	4.1/4.1 (15.5/ 15.5)	4.1/4.1 (15.5/ 15.5)	4.0/4.0 (15.1/ 15.1)	4.2/4.2 (15.9/ 15.9)	4.0/4.0 (15.1/ 15.1)	4.0/4.0 (15.1/ 15.1)	4.0/4.0 (15.1/ 15.1)	4.2/4.2 (15.9/ 15.9)
Minimum load (%)	10									
Chassis length in. (mm)	555.3 (14100)	467.1 (11860)	555.3 (14100)	599.3 (15220)	555.3 (14100)	599.3 (15220)	599.3 (15220)	467.1 (11864)	467.1 (11865)	599.3 (15220)
Chassis width in. (mm)	88.3 (2243)	88.3 (2243)	88.3 (2243)	88.3 (2242)	88.3 (2243)	88.3 (2243)	88.4 (2245)	88.3 (2243)	88.3 (2243)	88.3 (2243)
Chassis height in. (mm)	94.7 (2405)	94.7 (2405)	94.7 (2405)	94.7 (2405)	94.7 (2405)	94.7 (2405)	94.7 (2405)	94.6 (2403)	94.7 (2405)	94.7 (2405)
COMPRESSORS, SEMI-HERMETIC SCREW										
Quantity per chiller	2									
CONDENSER FANS										
Number: Circuit-1/ Circuit-2	14/10	12/8	14/10	14/12	12/12	13/13	13/13	10/10	10/10	13/13
Air on Condenser: min/ max °F (°C)	-10/131 (-23.3/55)									
EVAPORATOR, SHELL AND TUBE HYBRID FALLING FILM²										
Water volume gal (L)	147 (557)	130 (492)	130 (492)	147 (557)	96 (363)	147 (557)	96 (363)	130 (492)	147 (557)	147 (557)
Leaving water temperature: min/max °F (°C)²	40/60 (4.4/15.6)									
Maximum water side pressure psig (barg)	150 (10.3)									
Maximum refrigerant side pressure psig (barg)	235 (16.2)									
Evaporator drain connection in. (mm)	3/4 (19)									

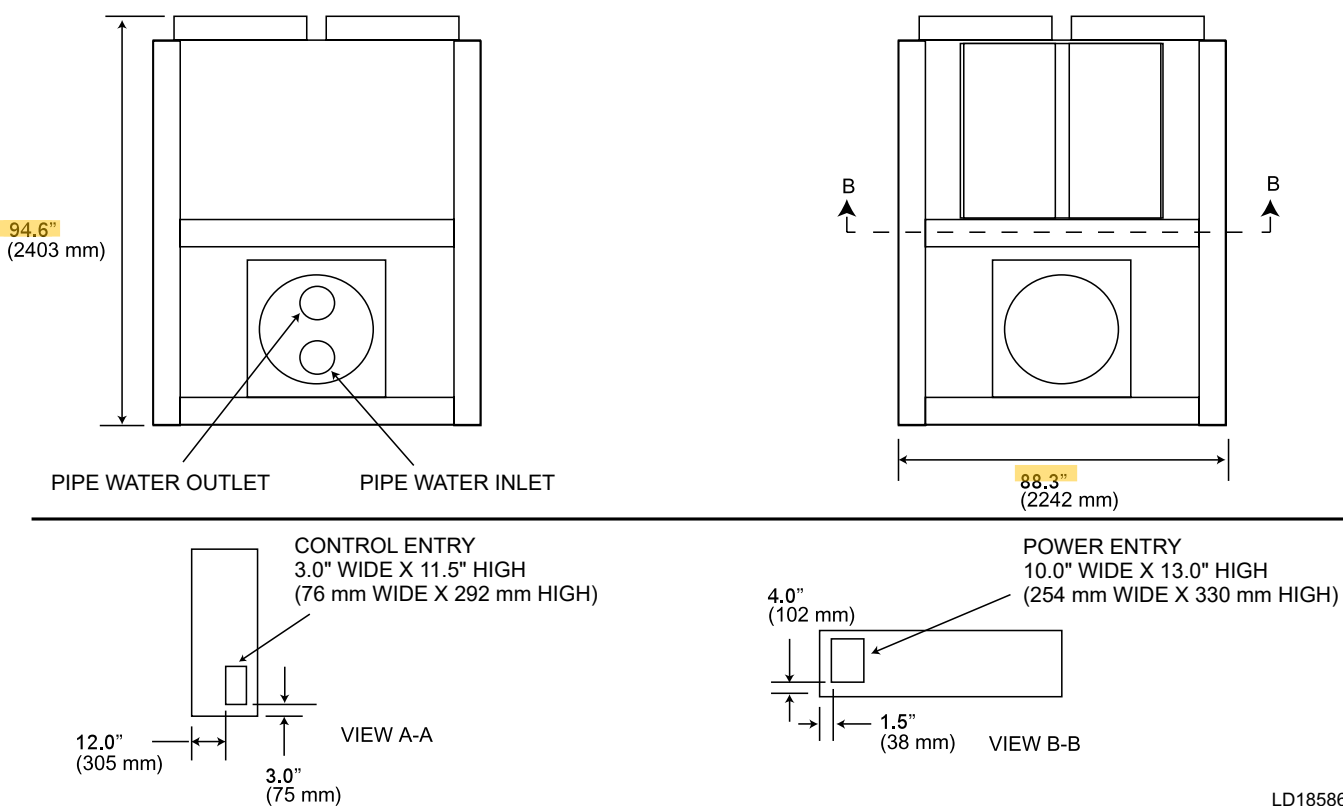
Notes:

- Shipping and operating weights are not shown as selected options may add weight to unit. Contact your nearest Johnson Controls sales office for weight data.
- For leaving liquid temperatures below 40°F (4.4°C) or above 70°F (21.1°C), contact your nearest Johnson Controls sales office for application requirements.

Dimensions

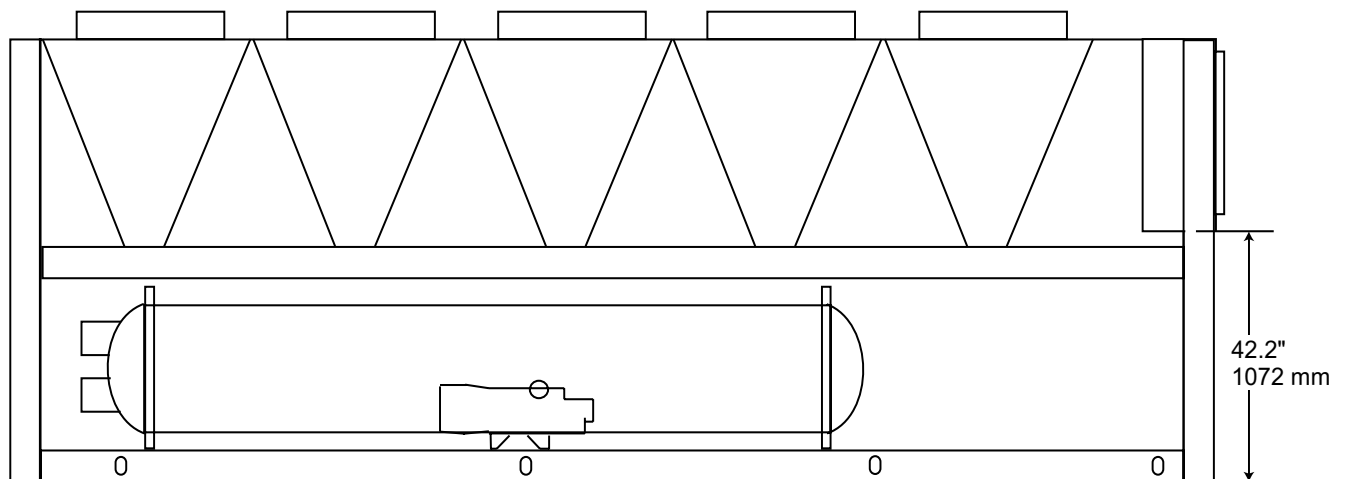
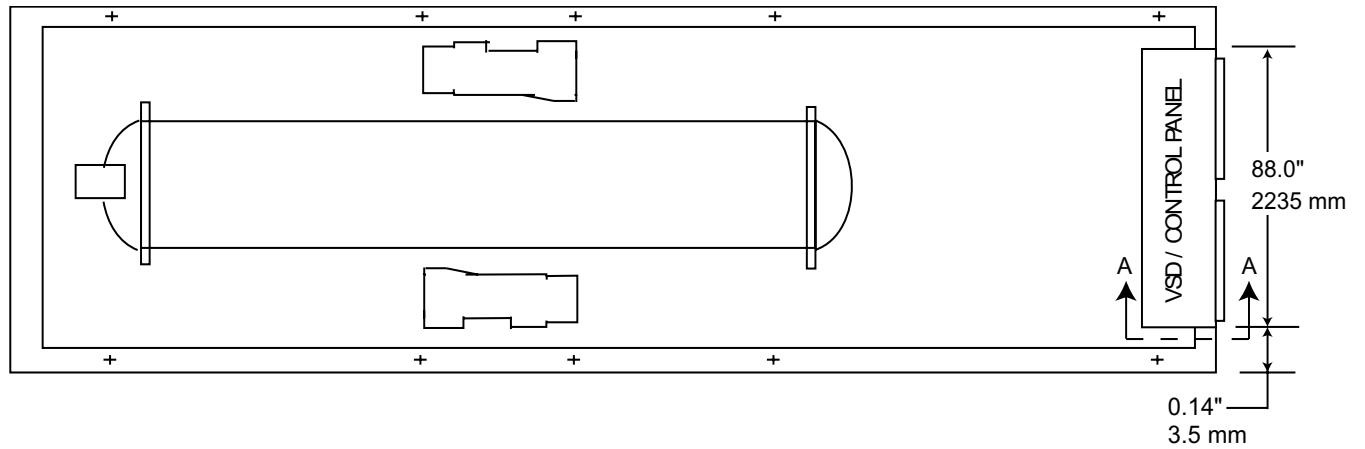
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ENGLISH AND SI DIMENSIONS



LD18586

Dimensions (cont'd)



LD18587