



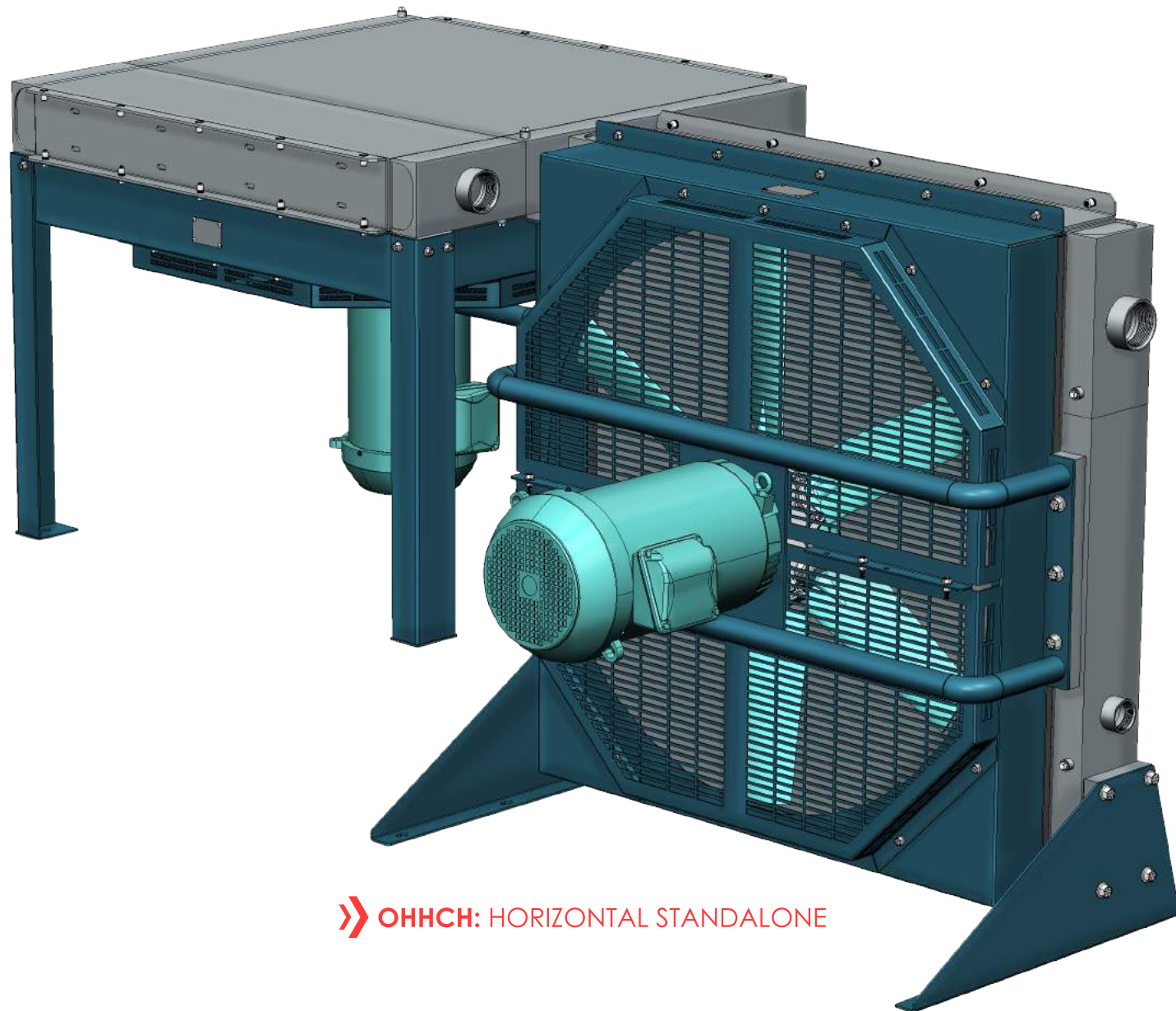
Ohio Heat Transfer

Standalone Cooling Packages:
OHHCH & OHHCV Catalog



OHHCH & OHHCV Standalone Cooling Packages:
Air-cooled all-aluminum combination heat exchanger
with framework, fan & motor assemblies

» **OHHCV: VERTICAL STANDALONE**



» **OHHCH: HORIZONTAL STANDALONE**

Product Features

- › Combination air & oil cores
- › Bar & plate brazed aluminum core
- › Heavy duty, compact & high performance all-aluminum core assembly
- › All-aluminum coolers are an excellent solution for optimal heat recovery
- › Aluminum construction eliminates corrosion problems for water cooled units
- › Eliminates high costs related to water and sewer consumption
- › Range of horsepower rated designs, with vertical & horizontal ambient air flow options
- › Packages include steel fan shroud, steel fan finger guard, fan & TEFC motor
- › Detachable steel mounting legs included & shipped loose with cooling packages
- › Heresite and powder coating available upon customer request

Ratings

Maximum Operating Pressure

- › 275 psi (19 BAR)

Maximum Operating Temperature

- › 350 ° F (177 ° C)

Fluid Compatibility

- › Petroleum/Mineral Oils
- › Oil/Water Emulsion
- › Water/Ethylene Glycol

Materials

- › Core Material - 3003-H Aluminum
- › Extruded Tanks - 6061 Aluminum
- › Aluminum Connections

Selection Process > Based on Flow Rates

- A** > Determine the Air Compressor's motor horsepower.
- B** > Select the appropriate size model from chart based on motor horsepower.
- C** > Check the aftercooler SCFM. If the SCFM is unknown, multiply the air compressor's motor HP by 4.5 to determine the SCFM capacity. Aftercooler in chart predicts 3 PSI or less pressure drop across the cooler.

NOTE: All MAX SCFM values are at 100 PSI air & 15°F approach temperature.

- D** > Check the LPM rating. Typical oil flow is 1.7 LPM/HP. Oil cooler in chart predicts 3 PSI or less pressure drop across the cooler.

NOTE: All oil cooling predictions are based on 30°F temperature drop using ISO 32 Oil.

Model	Compressor Horsepower	Aftercooler MAX SCFM	Oil Cooler LPM
OHHC-050	50	295	85
OHHC-075	75	425	128
OHHC-100	100	585	170
OHHC-150	150	775	255
OHHC-200	200	1125	340
OHHC-250	250	1480	425

Installation > Recommended Process

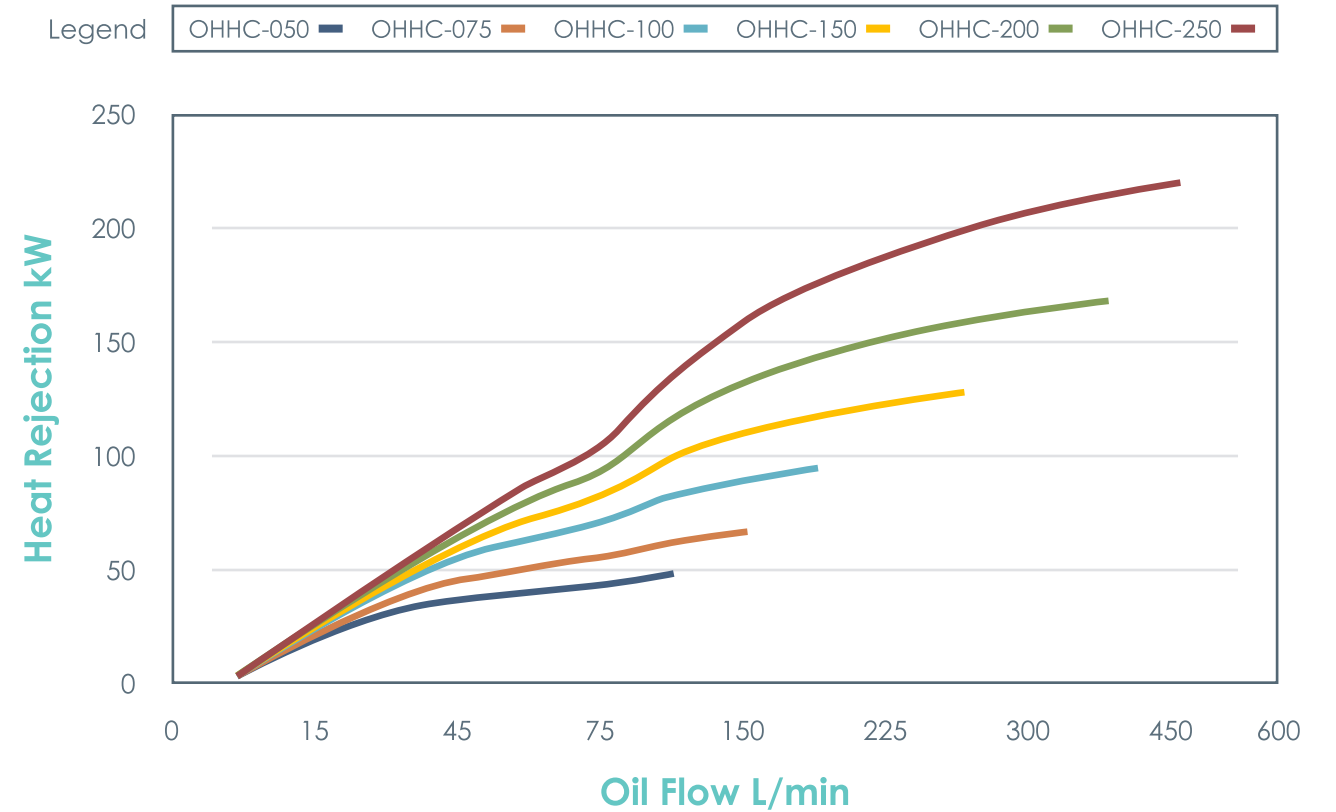
- A** > To validate the product's warranty, be sure to properly install flexible connectors. Support all other piping as needed.
- B** > Coolers should not operate in ambient temperatures below 35°F (1°C). Please consult factory for further recommendations and guidelines.
- C** > The fans with each unit are pusher fans and cannot be cycled.
- D** > Coolers operated outdoors must be protected from weather. Please consult factory for further recommendations and guidelines.
- E** > An auxiliary air mover may be required for the cooling package, if ductwork or other static resistance is added to the cooler air-stream.

Maintenance > Recommended Process

Periodically use compressed air to remove any accumulation of debris from the cooler fins. Check all pipe fittings of the complete system for leaks and damage.

Use a chlorinated solvent, if the inside of the tubes need to be cleared of oil and carbon build up. Never use any strong solvents, acids or caustic cleaners for cleaning to prevent possibly damaging the integrity of the tubes.

Performance Curve > Based on Oil Flow



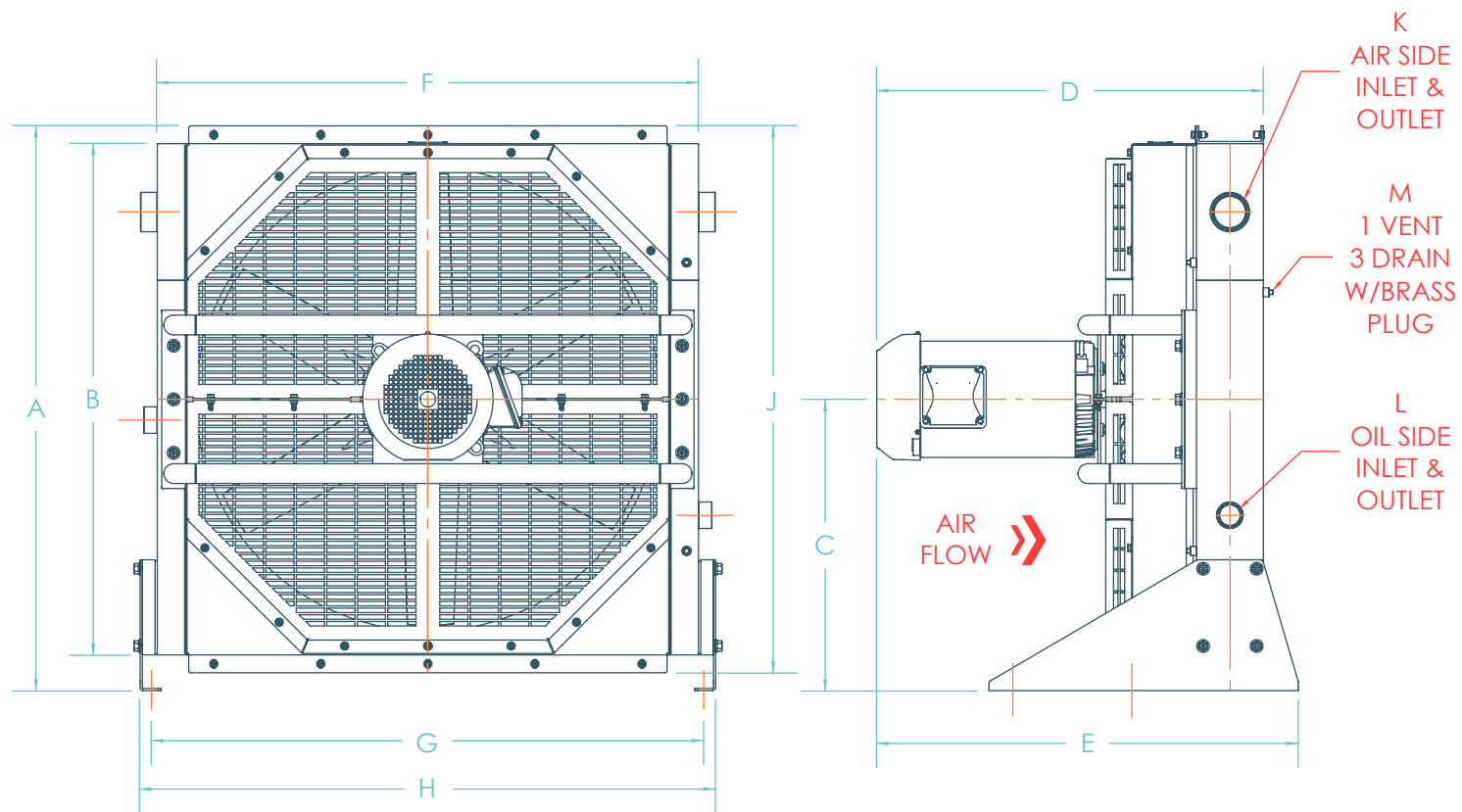
NOTE: Performance curves based on ISO 32 Oil & 105° F (41° C) Ambient Temperature. If your application conditions are different, please contact us to determine which cooling package will fit your needs.

Specification Chart > Fan & Motor

Model	Fan CFM	Motor HP	Voltage	Phase	Full Load Amps 230/460V	HZ	RPM	Nema Frame	Net Weight LBS
OHHC-050	3,800	2	230/460	3	5.44/2.72	60	1,800	143/5TC	44
OHHC-075	4,900	3	230/460	3	7.62/3.81	60	1,800	182/4TC	85
OHHC-100	7,200	5	230/460	3	13.0/6.49	60	1,800	182/4TC	82
OHHC-150	9,500	7 1/2	230/460	3	18.4/9.18	60	1,800	213/5TC	128
OHHC-200	11,500	7 1/2	230/460	3	18.4/9.18	60	1,800	213/5TC	128
OHHC-250	15,600	10	230/460	3	24.4/12.2	60	1,800	213/5TC	142

NOTE: All motors in the above chart are TEFC. Other motor options may be available upon customer request. Electrical ratings are approximate and may vary because of motor brand. Refer to motor ID Tag for actual ratings.

Horizontal Air Flow Cooling Package

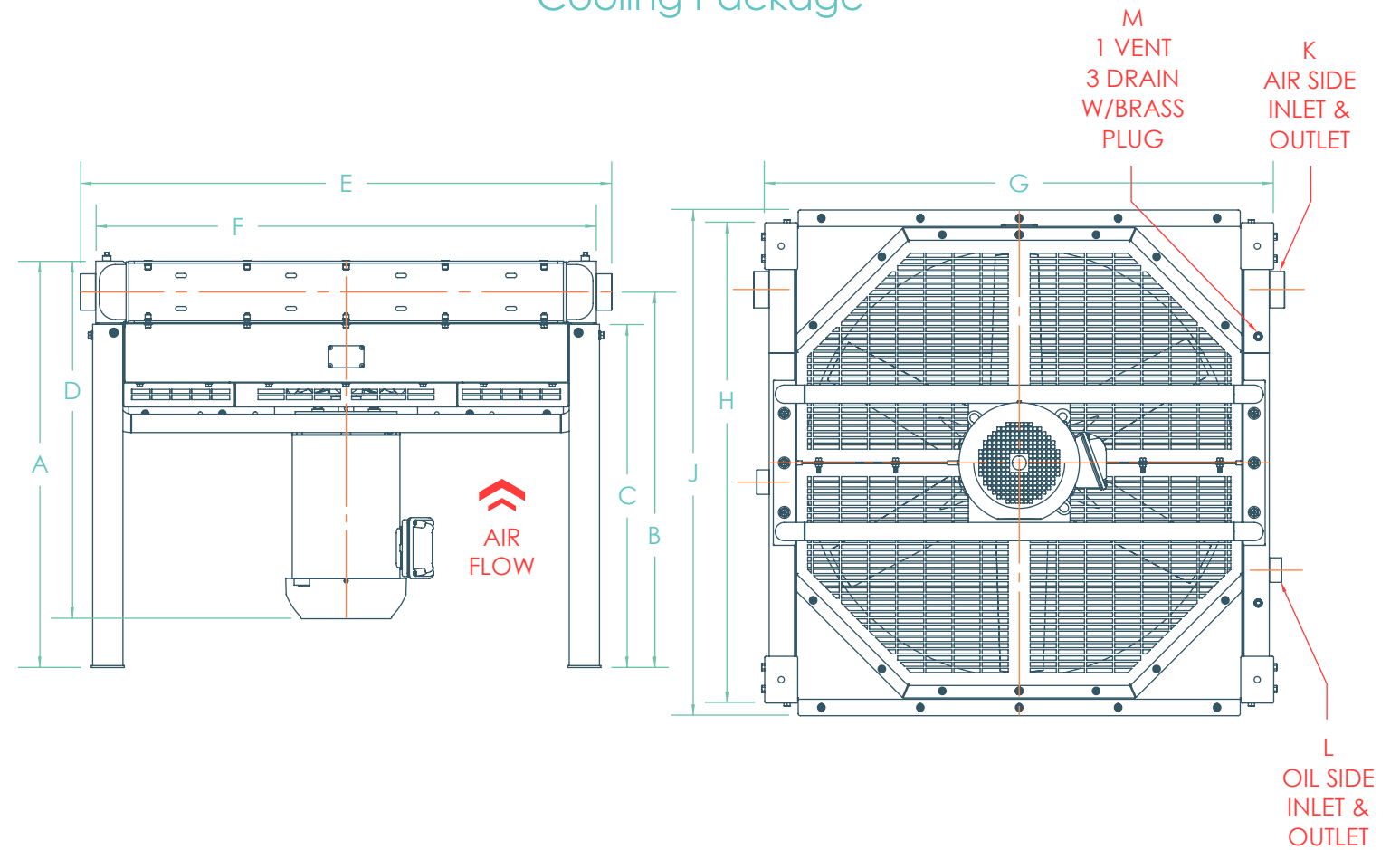


Reference Chart > OHHCH Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	M
OHHCH-050	29 $\frac{3}{16}$	24 $\frac{11}{16}$	15 $\frac{3}{8}$	23 $\frac{9}{16}$	25 $\frac{1}{2}$	33 $\frac{9}{16}$	34 $\frac{7}{16}$	36 $\frac{7}{16}$	27 $\frac{11}{16}$	NPT 1 $\frac{1}{2}$	NPT 1	NPT $\frac{1}{4}$
OHHCH-075	31	26 $\frac{1}{2}$	16 $\frac{1}{4}$	28 $\frac{3}{16}$	30 $\frac{1}{8}$	37	37 $\frac{7}{8}$	39 $\frac{7}{8}$	29 $\frac{1}{2}$	NPT 2	NPT 1 $\frac{1}{4}$	NPT $\frac{1}{4}$
OHHCH-100	34 $\frac{7}{8}$	30 $\frac{3}{8}$	18 $\frac{3}{16}$	28 $\frac{3}{16}$	30 $\frac{1}{8}$	39 $\frac{1}{2}$	40 $\frac{3}{8}$	42 $\frac{3}{8}$	33 $\frac{7}{16}$	NPT 2	NPT 1 $\frac{1}{4}$	NPT $\frac{1}{4}$
OHHCH-150	42 $\frac{5}{16}$	37 $\frac{13}{16}$	21 $\frac{15}{16}$	31 $\frac{1}{2}$	35 $\frac{7}{16}$	42 $\frac{1}{2}$	43 $\frac{3}{8}$	45 $\frac{3}{8}$	40 $\frac{13}{16}$	NPT 2 $\frac{1}{2}$	NPT 1 $\frac{1}{2}$	NPT $\frac{1}{4}$
OHHCH-200	47 $\frac{1}{2}$	43	24 $\frac{1}{2}$	32 $\frac{1}{2}$	35 $\frac{7}{16}$	43 $\frac{1}{2}$	46 $\frac{3}{8}$	48 $\frac{3}{8}$	46	NPT 2 $\frac{1}{2}$	NPT 1 $\frac{1}{2}$	NPT $\frac{1}{4}$
OHHCH-250	53 $\frac{1}{8}$	48 $\frac{7}{8}$	27 $\frac{3}{16}$	32 $\frac{1}{2}$	35 $\frac{7}{16}$	49	50 $\frac{3}{8}$	52 $\frac{3}{8}$	51 $\frac{7}{8}$	NPT 3	NPT 2	NPT $\frac{1}{4}$

NOTE: We reserve the right to make reasonable design changes without notice. All dimensions are in inches.

Vertical Air Flow Cooling Package



Reference Chart > OHHCV Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	M
OHHCV-050	33 $\frac{15}{16}$	32 $\frac{1}{8}$	30 $\frac{3}{16}$	23 $\frac{9}{16}$	35 $\frac{13}{16}$	33 $\frac{9}{16}$	34 $\frac{3}{8}$	25 $\frac{5}{16}$	27 $\frac{11}{16}$	NPT 1 $\frac{1}{2}$	NPT 1	NPT $\frac{1}{4}$
OHHCV-075	33 $\frac{15}{16}$	33 $\frac{5}{8}$	31 $\frac{3}{16}$	28 $\frac{3}{16}$	39 $\frac{1}{2}$	37	37 $\frac{5}{8}$	27 $\frac{1}{8}$	29 $\frac{1}{2}$	NPT 2	NPT 1 $\frac{1}{4}$	NPT $\frac{1}{4}$
OHHCV-100	33 $\frac{15}{16}$	33 $\frac{5}{8}$	31 $\frac{3}{16}$	28 $\frac{3}{16}$	42	39 $\frac{1}{2}$	40 $\frac{1}{8}$	31	33 $\frac{3}{8}$	NPT 2	NPT 1 $\frac{1}{4}$	NPT $\frac{1}{4}$
OHHCV-150	33 $\frac{15}{16}$	33 $\frac{5}{8}$	31 $\frac{3}{16}$	31 $\frac{1}{2}$	45 $\frac{5}{16}$	42 $\frac{1}{2}$	43 $\frac{5}{16}$	38 $\frac{1}{2}$	40 $\frac{13}{16}$	NPT 2 $\frac{1}{2}$	NPT 1 $\frac{1}{2}$	NPT $\frac{1}{4}$
OHHCV-200	36 $\frac{15}{16}$	34 $\frac{1}{8}$	31 $\frac{3}{16}$	32 $\frac{1}{2}$	48 $\frac{5}{16}$	45 $\frac{1}{2}$	46 $\frac{5}{16}$	43 $\frac{11}{16}$	46	NPT 2 $\frac{1}{2}$	NPT 1 $\frac{1}{2}$	NPT $\frac{1}{4}$
OHHCV-250	37 $\frac{3}{16}$	34 $\frac{3}{8}$	31 $\frac{3}{16}$	32 $\frac{1}{2}$	52	49	49 $\frac{13}{16}$	49 $\frac{9}{16}$	51 $\frac{7}{8}$	NPT 3	NPT 2	NPT $\frac{1}{4}$

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