

PACS Series air-cooled rotary screw chillers from Thermal Care, Inc. are compact, convenient and an environmentally responsible choice for most any application. Units are more reliable, more efficient and have lower vibration levels than other chillers in the same size range due to advanced twin-screw technology and lower-pressure, chlorine-free refrigerant HFC134A.

Small size, big capacity
Up to 50 percent smaller than other air-cooled chillers, in capacities from 80 to 300 tons.

Twin screw compressor technology
Lowers unit vibration levels without compromising chiller performance.

Chlorine-free HFC134A refrigerant
Environmentally-friendly, not subject to phase-out, ozone depletion potential (ODP) of zero.

Reduced kw/hr operating charges
Cooler tubes are totally immersed in liquid refrigerant.

Wide ambient temperature range
Efficient operation between -20°F and 125°F.

Quieter than other chillers
New aeroacoustic fan design moves more air with less noise.

Low operating costs
Performance exceeds current ASHRAE 90.1 requirements.

Easy to install and maintain
Compact unit size and easy side access panels simplify piping and installation.

Microprocessor Controller Features

Located inside the control box, the simple to operate controller clearly presents operating information on a scrolling marquee display window in English and Spanish. Quick menu access provides fast system diagnostics with no complex codes to interpret. Alarm recognition is immediate on status LED window.



Scrolling marquee display gives accurate temperature readings and high level of chiller control.



PACS SERIES CHILLERS ARE ENVIRONMENTALLY RESPONSIBLE AND HIGHLY EFFICIENT.

THERMAL CARE

PACL Series air-cooled scroll compressor chillers from Thermal Care, Inc. are a dependable, affordable, and quiet solution for process cooling applications. Designed to be used outdoors, PA CL Series chillers are easy to install, operate and maintain.

Full range of models
Available in capacities from 11 to 69 tons.

Wide ambient temperature operating range
Operation between -20°F and 125°F allows for great flexibility in design applications.

Low operating costs
Ultra-quiet, high efficiency scroll compressors provide full load EER (Energy Efficiency Ratio) up to 10.2. In addition, the compressors operate in tandem for greater part-load efficiency.

Quiet operation
AeroAcoustic™ low-noise fans are almost twice as quiet as competitive units, which make our units ideal for sound-sensitive environments.

Compact and easy to install
Low profile - just 52 inches high - these units will not stand out on your roofline. With just a couple simple piping and power connections you will be up and running.

Microprocessor controller features
Located inside the control box, the simple to operate controller presents operating information on a large scrolling marquee display in English and Spanish. Quick menu access provides fast system diagnostics of over 15 functions with no complex codes to interpret. This intuitive user interface greatly reduces start-up and operator training time.



PA CL SERIES CHILLERS ARE AFFORDABLE AND EASY-TO-USE.

Scrolling marquee display gives accurate temperature readings and high level of chiller control.



THERMAL CARE

7720 N. Lehigh Avenue
Niles, Illinois 60714-3491
847/966-2260 Ext.2900
Fax: 847/966-9358
e-mail: info@thermalcare.com
www.thermalcare.com

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PACP & PACL Series Packaged Outdoor Air-Cooled Chillers (Scroll Compressors)

Model Number	Tons ¹	Ship Weight (Lbs)	MCA ² 460/3/60	Dimensions L x W x H (Inch)	Supply & Return Connection Sizes (Inch)	Compressor Qty	Fan Qty	Number of Refrigerant Circuits	Minimum Unloaded Capacity
PACP010	11.6	705	26.2	67 x 41 x 67	2	1	1	1	100%
PACP015	15.4	720	36.5	67 x 41 x 67	2	1	1	1	100%
PACP018	17.9	1,125	43.4	89 x 41 x 67	2	2	2	1	50%
PACP020	20.5	1,135	46.1	89 x 41 x 67	2	2	2	1	50%
PACP025	25.2	1,245	57.8	89 x 41 x 79	2	2	2	1	50%
PACP030	29.7	1,285	66.3	89 x 41 x 79	2	2	2	1	50%
PACP035	37.6	2,165	82.4	89 x 93 x 67	2½	4	3	2	23%
PACP040	43.2	2,185	86.2	89 x 93 x 67	2½	4	3	2	23%
PACP045	47.8	2,240	97.9	89 x 93 x 79	2½	4	3	2	24%
PACP050	51.9	2,265	106.9	89 x 93 x 79	2½	4	3	2	25%
PACP055	57.5	2,370	118.3	89 x 93 x 79	2½	4	4	2	23%
PACP060	61.4	2,375	125.9	89 x 93 x 79	2½	4	4	2	25%
PACL060	63.8	3,785	127.9	95 x 88 x 90	4	3	4	2	33%
PACL070	73.8	3,980	147.9	95 x 88 x 90	4	3	4	2	29%
PACL080	85.2	4,270	160.9	95 x 88 x 90	4	4	4	2	25%
PACL090	96.3	5,450	191.4	142 x 88 x 90	4	4	6	2	22%
PACL100	106.3	5,665	209.2	142 x 88 x 90	4	4	6	2	25%
PACL110	117.1	6,030	224.1	142 x 88 x 90	6	5	6	2	18%
PACL120	131.3	7,120	256.2	189 x 88 x 90	6	5	7	2	20%
PACL130	141.8	7,405	276.5	189 x 88 x 90	6	6	8	2	15%
PACL150	161.7	8,520	303.2	189 x 88 x 90	6	6	8	2	17%
PACL160	171.0	9,475	328.9	236 x 88 x 90	6	7	10	2	13%
PACL170	186.0	9,800	355.6	236 x 88 x 90	6	7	10	2	14%
PACL190	210.4	11,065	408.0	283 x 88 x 90	6	8	12	2	13%
PACL210	225.9	12,775	422.9	283 x 88 x 90	6	9	12	3	10%
PACL225	239.8	13,095	449.6	283 x 88 x 90	6	9	12	3	11%
PACL250	265.8	14,350	502.0	330 x 88 x 90	6	10	14	3	10%
PACL275	290.5	15,650	554.4	377 x 88 x 90	6	11	16	3	9%
PACL300	315.4	16,895	606.8	424 x 88 x 90	6	12	18	3	8%

¹Tons based upon 50°F leaving water temperature and 95°F ambient air entering the condenser. The chiller uses R410A refrigerant.

²MCA is Minimum Circuit Amps (for wire sizing).

PACS Series Packaged Outdoor Air-Cooled Chillers (Rotary Screw Compressors)

Model Number	Tons ¹	Ship Weight (Lbs)	MCA ² 460/3/60	Dimensions L x W x H (Inch)	Supply & Return Connection Sizes (Inch)	Compressor Qty	Fan Qty	Number of Refrigerant Circuits	Minimum Unloaded Capacity
PACS080	83.9	7,235	157.7	142 x 88 x 91	5	2	6	2	15%
PACS090	93.9	9,385	167.0	189 x 88 x 91	5	2	8	2	15%
PACS100	103.4	9,605	182.3	189 x 88 x 91	5	2	8	2	15%
PACS110	112.0	9,740	202.4	189 x 88 x 91	5	2	8	2	14%
PACS120	120.8	9,880	218.4	189 x 88 x 91	5	2	8	2	15%
PACS140	146.8	12,025	267.3	236 x 88 x 91	5	2	10	2	11%
PACS160	165.9	12,255	309.7	236 x 88 x 91	5	2	10	2	11%
PACS180	188.2	12,700	336.6	283 x 88 x 91	6	2	12	2	15%
PACS200	210.8	12,810	383.9	283 x 88 x 91	6	2	12	2	15%
PACS220	228.7	13,750	424.7	330 x 88 x 91	6	2	13	2	14%
PACS240	244.9	13,900	455.0	330 x 88 x 91	6	2	13	2	15%
PACS260	273.8	15,720	516.5	377 x 88 x 91	8	2	15	2	11%
PACS280	291.7	15,880	549.7	377 x 88 x 91	8	2	16	2	13%
PACS300	309.8	16,145	610.9	377 x 88 x 91	8	2	16	2	12%
PACS325	335.9	17,470	624.3	424 x 88 x 91	8	2	18	2	15%
PACS350	351.6	17,660	685.5	424 x 88 x 91	8	2	18	2	15%
PACS400	414.1	23,040	340.9 & 452.0 ³	471 x 88 x 91	8	3	20	3	9%
PACS450	460.7	24,905	402.0 & 553.6 ³	518 x 88 x 91	8	3	22	3	6%
PACS500	489.8	25,170	402.0 & 604.9 ³	518 x 88 x 91	8	3	22	3	7%

¹Tons based upon 50°F leaving water temperature and 95°F ambient air entering the condenser. The chiller uses R134A refrigerant.

²MCA is Minimum Circuit Amps (for wire sizing).

³On the PACS400 and larger, there are two power connection points. The MCA shown is connection point A and connection point B.



7720 North Lehigh Avenue
Niles, Illinois 60714-3491
Tel: (847) 966-2260
Toll Free: (888) 828-7387
Fax: (847) 966-9358

Email: info@thermalcare.com
Website: www.thermalcare.com

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