KIRBY

DESIGNED FOR
LOW GWP
REFRIGERANTS



KIRBY® COMMANDER

Condensing Units

Quieter, more powerful
and with greater
endurance

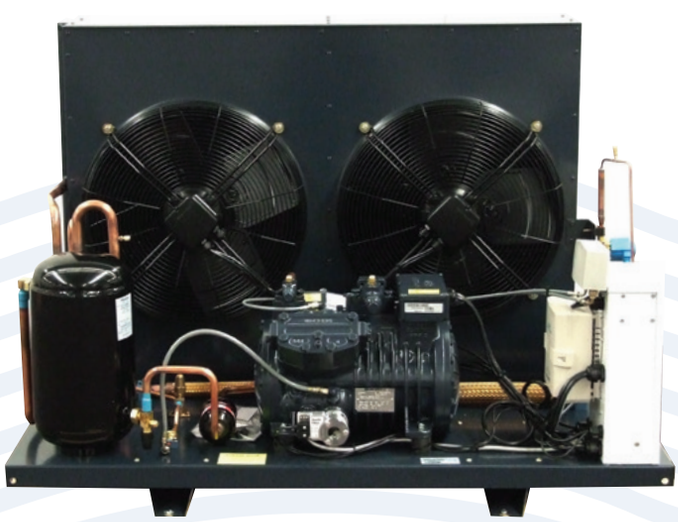


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KIRBY COMMANDER
Condensing Units

Introduction

Built smart, compact and tough, the Kirby® Commander range offers leading performance and efficiency without making a lot of noise. External rotor fan motors and Dorin H series compressors set the standard for smooth quiet operation across a wide application range.

Ultimate reliability comes standard when you combine Kirby® and Dorin – trusted to handle the extremes of our climate.

Features & Benefits

The Kirby® Commander condensing unit range offers:

- Dorin H11, H2, & H33 2 Cylinder SH compressors from 0.8HP to 4.0HP, with wide operational envelope at high ambient conditions
- Dorin H34 and H5 4 Cylinder SH compressors from 5.5HP to 22HP, with wide operational envelope at high ambient conditions
- Optimised condenser coil design incorporating inner grooved tube for enhanced heat transfer
- Premium quality external rotor fan motors for long life and increased efficiency
- Easy to clean powder coated sheet metal base and condenser casing
- Suction and liquid line connection points easily located together, providing an aesthetically pleasing appearance
- Liquid line drier and sight glass
- Separate electrical box
- Dual pressure control
- High efficiency oil separator with internal float
- Fan speed control
- Two-year limited warranty
- Optional ancillary kits available on request ,please refer to table on page 6

Kirby® Commander Condensing Units – Nomenclature

PC	S	228	MH	A1	2

Unit Type
PC Kirby® Commander

Compressor Type
S Semi-Hermetic Reciprocating

****Nominal Capacity**
228 R448A

Usage Application
L Low Temperature
M Medium Temperature
H High Temperature

Condenser Type & Variation
A Air Cooled

Power Supply & Release Number
Even Three Phase Supply
Odd Single Phase Supply

** Nominal Capacity:
LM, LMH & MH @-5C SST / 32C AMB.
L @-25C SST / 32 AMB

COMMANDER CONDENSING UNITS
R448A Performance Data

PRODUCT NUMBER	DISPLACE-MENT (m^3/hr)	AMBIENT TEMP (°C)	CAPACITY WATTS @ SST (°C)												RECEIVER CAPACITY (kg)
			LT						MT			HT			
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	
DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS - CC															
PCS022LMHA1-4	4.40	35	–	–	570	755	970	1,220	1,500	1,820	2,170	2,555	2,955	–	3.3
		43	–	–	465	630	820	1,045	1,300	1,585	1,905	2,235	2,570	–	
PCS031LMHA1-4	5.40	35	–	–	725	975	1,275	1,625	2,030	2,495	3,020	3,605	4,235	–	3.3
		43	–	–	590	815	1,080	1,395	1,765	2,185	2,665	3,190	3,750	–	
PCS039LMHA1-4	7.50	35	–	–	895	1,195	1,550	1,960	2,435	2,975	3,580	4,240	4,955	–	3.3
		43	–	–	735	1,000	1,315	1,680	2,110	2,600	3,145	3,740	4,375	–	
PCS044LMHA1-4	9.20	35	–	–	1,020	1,355	1,760	2,240	2,800	3,450	4,195	5,040	5,995	–	3.3
		43	–	–	825	1,125	1,485	1,915	2,425	3,015	3,695	4,470	5,335	–	
PCS057LMHA1-4	9.90	35	–	–	1,305	1,745	2,265	2,865	3,560	4,350	5,240	6,220	7,285	–	3.3
		43	–	–	1,065	1,455	1,915	2,450	3,075	3,795	4,600	5,480	6,415	–	
PCS071LMHA1-4	11.60	35	–	–	1,565	2,110	2,755	3,510	4,390	5,395	6,540	7,810	9,210	–	6.2
		43	–	–	1,280	1,770	2,345	3,025	3,825	4,745	5,785	6,940	8,195	–	
PCS084LMHA1-2	14.70	35	–	–	2,015	2,700	3,510	4,465	5,575	6,855	8,305	9,925	11,715	–	6.2
		43	–	–	1,685	2,290	3,005	3,855	4,855	6,015	7,330	8,795	10,400	–	
PCS101LMHA1-2	17.50	35	–	–	2,575	3,365	4,290	5,375	6,630	8,060	9,665	11,435	13,355	–	6.2
		43	–	–	2,205	2,900	3,725	4,695	5,830	7,125	8,580	10,165	11,860	–	
PCS126LMHA1-4	19.30	35	–	–	2,550	3,440	4,540	5,865	7,440	9,280	11,410	13,840	16,570	–	11.0
		43	–	–	2,150	2,930	3,895	5,075	6,500	8,185	10,125	12,315	14,720	–	
PCS149LMHA1-8	23.13	35	–	–	–	4,205	5,495	7,030	8,835	10,915	13,275	15,895	18,770	–	8.3
		43	–	–	–	–	4,785	6,175	7,825	9,730	11,885	14,280	16,885	–	
PCS174LMHA1-6	27.33	35	–	–	–	4,785	6,300	8,125	10,290	12,800	15,650	18,830	22,300	–	8.3
		43	–	–	–	–	5,420	7,050	9,005	11,280	13,875	16,765	19,910	–	
PCS174LMHA1-8	27.33	35	–	–	–	5,005	6,545	8,380	10,540	13,020	15,825	18,935	22,325	–	8.3
		43	–	–	–	–	5,715	7,385	9,360	11,635	14,210	17,055	20,140	–	
PCS200LMHA1-6	31.88	35	–	–	–	5,490	7,230	9,330	11,825	14,725	18,040	21,750	25,835	–	11.0
		43	–	–	–	–	6,215	8,090	10,340	12,970	15,985	19,355	23,050	–	
PCS205LMHA1-8	31.88	35	–	–	–	5,845	7,645	9,795	12,325	15,240	18,545	22,225	26,260	–	11.0
		43	–	–	–	–	6,680	8,630	10,945	13,620	16,650	20,015	23,685	–	
PCS284LMHA1-6	42.81	35	–	–	–	8,105	10,560	13,480	16,895	20,830	25,290	30,260	35,710	–	18.7
		43	–	–	–	–	9,100	11,730	14,825	18,410	22,475	26,995	31,935	–	
PCS361LMHA2-6	56.87	35	–	–	–	9,340	12,090	15,340	19,125	23,455	28,335	33,735	39,620	–	18.7
		40	–	–	–	8,460	11,025	14,060	17,610	21,690	26,280	31,370	36,910	–	

CONDENSING UNIT RATINGS ARE AT THE FOLLOWING CONDITIONS

- Liquid entering temperature with inherent sub-cooling average 2-3°C
- Return vapour temperature of 20°C.
- All capacity data based on continuous condenser fan operation without the consideration of fan speed control.

For the latest refrigerant performance data, equipment selections and application support, use Kirby Select™ or the Quick Select Tools available through the Kirby smart@ccess customer portal. These tools provide the most current selection information across a wide range of traditional and lower-GWP refrigerants.

COMMANDER CONDENSING UNITS
R513A Performance Data

PRODUCT NUMBER	DISPLACEMENT (m^3/hr)	AMBIENT TEMP (°C)	CAPACITY WATTS @ SST (°C)												RECEIVER CAPACITY (kg)
			LT						MT			HT			
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	
DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)															
PCS022LMHA1-4	4.40	35	-	-	-	-	540	730	955	1,200	1,480	1,780	2,120	2,480	3.2
		43	-	-	-	-	-	610	805	1,035	1,290	1,575	1,875	-	
PCS031LMHA1-4	5.40	35	-	-	-	-	-	930	1,215	1,540	1,900	2,305	2,765	3,250	3.2
		43	-	-	-	-	-	780	1,035	1,335	1,660	2,030	2,440	2,885	
PCS039LMHA1-4	7.50	35	-	-	-	-	-	1,180	1,530	1,925	2,365	2,860	3,410	4,000	3.2
		43	-	-	-	-	-	995	1,310	1,670	2,080	2,535	3,025	-	
PCS044LMHA1-4	9.20	35	-	-	-	-	-	1,370	1,780	2,255	2,785	3,395	4,070	4,810	3.2
		43	-	-	-	-	-	-	1,530	1,960	2,445	3,000	3,625	4,300	
PCS057LMHA1-4	9.90	35	-	-	-	-	1,440	1,905	2,430	3,025	3,680	4,435	5,255	6,145	3.2
		43	-	-	-	-	-	-	2,125	2,675	3,280	3,960	4,715	-	
PCS071LMHA1-4	11.60	35	-	-	-	-	-	2,345	2,965	3,660	4,455	5,355	6,355	7,435	6.0
		43	-	-	-	-	-	2,045	2,620	3,260	3,995	4,820	5,730	6,730	
PCS084LMHA1-2	14.70	35	-	-	-	-	-	2,965	3,740	4,625	5,635	6,770	8,045	9,450	6.0
		43	-	-	-	-	-	2,560	3,275	4,090	5,020	6,070	7,245	8,545	
PCS101LMHA1-2	17.50	35	-	-	-	-	2,645	3,460	4,365	5,390	6,550	7,860	9,325	10,915	6.0
		43	-	-	-	-	-	2,990	3,820	4,775	5,845	7,050	8,400	-	
PCS126LMHA1-4	19.30	35	-	-	-	-	2,885	3,830	4,890	6,105	7,505	9,105	10,915	12,920	10.6
		43	-	-	-	-	2,460	3,335	4,315	5,445	6,740	8,225	9,900	11,755	
PCS149LMHA1-10	23.13	35	-	-	-	-	3,209	4,341	5,659	7,203	8,994	11,046	13,360	15,930	8.3
		43	-	-	-	-	2,724	3,728	4,902	6,273	7,866	9,690	11,750	14,040	
PCS174LMHA1-10	27.33	35	-	-	-	-	3,793	5,070	6,549	8,279	10,281	12,575	15,140	17,997	8.3
		43	-	-	-	-	3,243	4,383	5,703	7,239	9,021	11,048	13,338	15,883	
PCS175LMHA1-10	27.33	35	-	-	-	-	3,712	5,005	6,529	8,320	10,412	12,821	15,558	18,611	8.3
		43	-	-	-	-	3,167	4,308	5,656	7,249	9,110	11,260	13,701	16,425	
PCS200LMHA1-8	42.81	35	-	-	-	-	4,638	6,157	7,907	9,929	12,243	14,889	17,877	21,166	11.0
		43	-	-	-	-	-	5,307	6,872	8,672	10,746	13,102	15,751	18,692	
PCS205LMHA1-10	31.88	35	-	-	-	-	4,527	6,076	7,877	9,985	12,439	15,256	18,455	22,021	11.0
		43	-	-	-	-	3,846	5,222	6,825	8,705	10,897	13,414	16,260	19,446	
PCS284LMHA1-8	42.81	35	-	-	-	-	-	7,686	10,070	12,847	16,076	19,788	23,973	28,631	18.7
		43	-	-	-	-	-	6,598	8,710	11,189	14,054	17,354	21,077	25,206	
PCS361LMHA2-8	56.87	35	-	-	-	-	7,394	10,020	13,078	16,629	20,734	25,381	30,603	36,337	18.7
		43	-	-	-	-	6,268	8,597	11,311	14,469	18,117	22,255	26,893	31,983	
DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)															
PCS194LMA1-8	31.88	35	-	-	-	-	5,080	6,555	8,220	10,105	12,220	14,585	17,200	20,035	8.0
		43	-	-	-	-	4,369	5,637	7,069	8,690	10,509	12,543	14,792	10,787	
PCS193LMA1-10	31.88	35	-	-	-	-	4,985	6,495	8,215	10,160	12,355	14,805	17,510	20,440	8.0
		43	-	-	-	-	4,287	5,586	7,065	8,738	10,625	12,732	15,059	10,950	
PCS228LMA1-8	38.06	35	-	-	-	-	5,785	7,470	9,390	11,585	14,070	16,860	19,955	23,345	10.6
		43	-	-	-	-	4,975	6,424	8,075	9,963	12,100	14,500	17,161	12,470	
PCS318LMA1-8	48.82	35	-	-	-	-	7,600	9,930	12,560	15,525	18,850	22,575	26,720	31,235	17.8
		43	-	-	-	-	6,536	8,540	10,802	13,352	16,211	19,415	22,979	16,696	
PCS360LMA1-8	56.87	35	-	-	-	-	8,885	11,485	14,430	17,760	21,490	25,645	30,230	35,235	17.8
		43	-	-	-	-	7,641	9,877	12,410	15,274	18,481	22,055	25,998	18,967	
PCS391LMA2-8	61.92	35	-	-	-	-	9,805	12,665	15,915	19,600	23,740	28,360	33,450	38,990	17.8
		43	-	-	-	-	8,432	10,892	13,687	16,856	20,416	24,390	28,767	33,531	

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- Return vapour temperature of 20°C.
- All capacity data based on continuous condenser fan operation without the consideration of fan speed control.

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COMMANDER CONDENSING UNITS
Technical Data

PRODUCT NUMBER	COMPRESSOR MODEL	CONDENSER FAN DATA			ELECTRICAL DATA				CONNECTIONS		SOUND DATA			
		NO. OF FANS (#)	DIA (mm)	AIR-FLOW (l/s)	MCC (A/Ph)	LRA (A/Ph)	RLA (A/Ph)	INPUT (W)	LIQUID (mm)	SUCTION (mm)	100% FAN SPEED		60% FAN SPEED	
											LWA	LPA 3M	LWA	LPA 3M
DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)														
PCS022LMHA1-4	H80CC/HTCR	1	300	280	3.50	14.35	2.75	1,300	9.52	15.88	68.0	48.0	58.8	38.8
PCS031LMHA1-4	H101CC/HTCR	2	300	540	5.50	21.1	3.90	1,750	12.70	15.88	69.0	49.0	61.2	41.2
PCS039LMHA1-4	H151CC/HTCR	2	300	560	7.10	25.6	4.30	2,000	12.70	15.88	70.0	50.0	61.7	41.7
PCS044LMHA1-4	H181CC/HTCR	2	350	1,300	7.16	25.66	4.76	2,310	12.70	15.88	77.0	57.0	68.9	48.9
PCS057LMHA1-4	H221CC/HTCR	2	350	1,300	7.16	25.66	5.86	2,930	12.70	19.05	77.0	57.0	68.9	48.9
PCS071LMHA1-4	H281CC/HTCR	2	350	1,340	10.56	44.66	7.36	3,600	12.70	19.05	77.0	57.0	69.9	49.9
PCS084LMHA1-2	H300CC/HTCR	2	350	1,370	10.56	44.76	8.36	4,100	12.70	22.22	76.0	56.0	69.1	49.1
PCS101LMHA1-2	H380CC/HTCR	2	350	1,230	10.56	44.76	9.76	5,160	12.70	28.57	76.0	56.0	69.4	49.4
PCS126LMHA1-4	H405CC	2	500	3,180	20.10	68.70	14.60	6,420	15.90	22.22	82.8	62.8	76.3	56.3
PCS149LMHA1-10	H505CC	2	450	1,940	17.60	66.10	13.50	6,790	15.90	28.60	80.5	60.5	74.0	54.0
PCS174LMHA1-10	H701CC	2	450	2,190	22.60	89.10	15.40	7,340	15.90	28.60	81.0	61.0	75.5	55.5
PCS175LMHA1-10	H705CC	2	450	2,190	22.60	89.10	15.90	7,780	15.90	28.60	81.0	61.0	75.0	55.0
PCS200LMHA1-8	H751CC	2	500	2,790	25.10	91.60	19.10	8,870	15.90	28.60	83.5	63.5	77.0	57.0
PCS205LMHA1-10	H755CC	2	500	2,790	25.10	91.60	19.80	9,380	15.90	28.60	83.0	63.0	75.5	55.5
PCS284LMHA1-8	H1201CC	2	500	3,010	33.60	140.30	24.30	11,950	22.20	34.90	83.5	63.5	77.5	57.5
PCS361LMHA2-8	H2001CC	2	500	2,880	43.6	182.60	32.20	16,010	22.20	34.90	84.5	64.5	80.0	60.0
DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)														
PCS194LMA1-8	H701CS	2	450	2,190	17.60	66.20	15.50	8,110	15.90	28.60	81.5	61.5	76.5	56.5
PCS193LMA1-10	H705CS	2	450	2,190	17.60	66.10	16.30	8,690	15.90	28.60	81.0	61.0	75.0	55.0
PCS228LMA1-8	H751CS	2	500	2,980	25.10	91.60	21.00	10,240	15.90	34.92	83.5	63.5	77.5	57.5
PCS318LMA1-8	H1001CS	2	500	3,160	29.60	114.30	26.60	13,980	22.20	34.90	84.0	64.0	79.0	59.0
PCS360LMA1-8	H1501CS	2	500	3,010	33.60	140.30	30.10	15,930	22.20	34.90	84.5	64.5	80.0	60.0
PCS391LMA2-8	H1601CS	2	500	2,880	39.60	176.10	35.70	18,140	22.20	34.90	85.0	65.0	81.5	61.5

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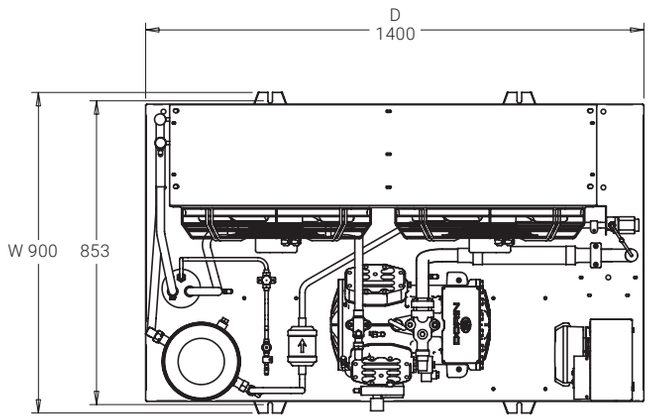
COMMANDER CONDENSING UNITS
Physical Data

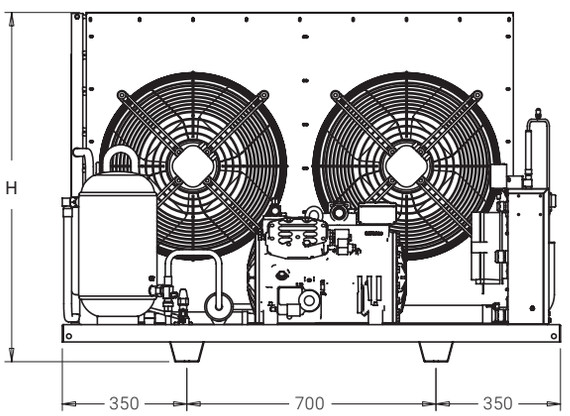
PRODUCT NUMBER	DIMENSIONS (mm)			MOUNTING CENTRES (mm)		WEIGHT (kg)	
	HEIGHT	WIDTH	DEPTH	A	B	NET	GROSS
DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS – CC							
PCS022LMHA1-4	451	903	602	820	510	55	64
PCS031LMHA1-4	496	947	784	915	700	65	77
PCS039LMHA1-4	496	947	784	915	700	68	80
PCS044LMHA1-4	496	953	784	915	700	88	103
PCS057LMHA1-4	496	953	784	915	700	94	109
PCS071LMHA1-4	556	955	784	915	700	110	125
PCS084LMHA1-2	658	973	798	915	700	112	127
PCS101LMHA1-2	658	973	798	915	700	154	169
PCS126LMHA1-4	808	1,262	921	1,210	814	197	217
PCS149LMHA1-10	845	1,400	900	700	860	195	215
PCS174LMHA1-10	882	1,400	900	700	860	205	225
PCS175LMHA1-10	882	1,400	900	700	860	205	225
PCS200LMHA1-8	981	1,400	900	700	860	235	250
PCS205LMHA1-10	981	1,400	900	700	860	235	250
PCS284LMHA1-8	1,033	1,650	900	580 / 480	860	345	380
PCS361LMHA2-8	1,033	1,650	900	580 / 480	860	370	395
DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS – CS							
PCS194LMA1-8	882	1,400	900	700	860	205	225
PCS193LMA1-10	882	1,400	900	700	860	205	225
PCS228LMA1-8	981	1,400	900	700	860	125	145
PCS318LMA1-8	1,033	1,650	900	580 / 480	860	325	345
PCS360LMA1-8	1,033	1,650	900	580 / 480	860	350	370
PCS391LMA2-8	1,033	1,650	900	580 / 480	860	370	390

PRODUCT NUMBER	COMPRESSOR	OPTIONAL ANCILLARY KITS								
		INVERTER VSD	PHASE FAILURE CONTROL	TRAX OIL SAFETY SWITCH	TRAX OIL LEVEL CONTROL	CYL. CAPACITY CONTROL 50%	PART WIND WIRING	HEAD COOLING AUX FAN	SUCTION ACCUM.	COND.EC FAN
PCS022LMHA1-4	H80CC/HTCR	N/A	OPTION	N/A	N/A	N/A	N/A	OPTION	OPTION	OPTION
PCS031LMHA1-4	H101CC/HTCR	N/A	OPTION	N/A	N/A	N/A	N/A	OPTION	OPTION	OPTION
PCS039LMHA1-4	H151CC/HTCR	N/A	OPTION	N/A	N/A	N/A	N/A	OPTION	OPTION	OPTION
PCS044LMHA1-4	H181CC/HTCR	N/A	OPTION	N/A	N/A	N/A	N/A	OPTION	OPTION	OPTION
PCS057LMHA1-4	H221CC/HTCR	N/A	OPTION	N/A	N/A	N/A	N/A	OPTION	OPTION	OPTION
PCS071LMHA1-4	H281CC/HTCR	N/A	OPTION	OPTION	N/A	N/A	N/A	OPTION	OPTION	OPTION
PCS084LMHA1-2	H300CC/HTCR	N/A	OPTION	OPTION	N/A	N/A	N/A	OPTION	OPTION	OPTION
PCS101LMHA1-2	H380CC/HTCR	N/A	OPTION	OPTION	N/A	N/A	N/A	OPTION	OPTION	OPTION
PCS126LMHA1-4	H405CC	OPTION	STD	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
PCS149LMHA1-10	H505CC	OPTION	STD	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
PCS174LMHA1-10	H701CC	OPTION	STD	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
PCS175LMHA1-10	H705CC	OPTION	STD	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
PCS200LMHA1-8	H751CC	OPTION	STD	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
PCS205LMHA1-10	H755CC	OPTION	STD	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
PCS284LMHA1-8	H1201CC	OPTION	STD	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION
PCS361LMHA2-8	H2001CC	OPTION	STD	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION

Base Type A

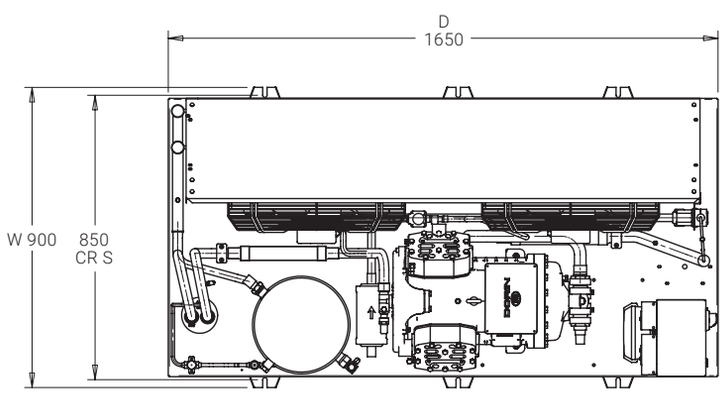
MIN DISTANCE TO WALLS = 600mm

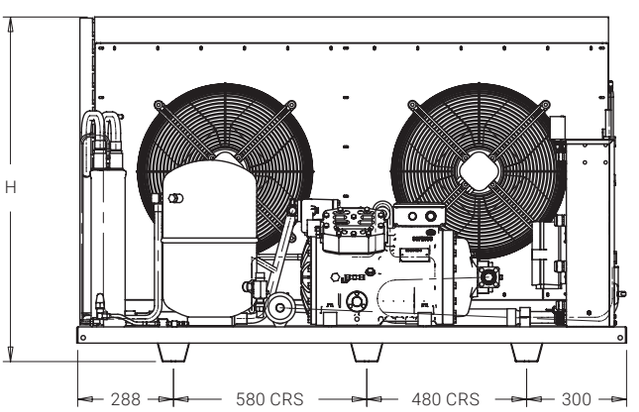




Base Type B

MIN DISTANCE TO WALLS = 600mm





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