KIRBY

DESIGNED FOR
LOW GWP
REFRIGERANTS



KIRBY® TITAN
Condensing Units

Huge capacity and
maximum performance
in harsh conditions.



Exclusively distributed by

KIRBY
A BEIJER REF Company

KIRBY® TITAN
Condensing Units

Introduction and Overview

A tough, compact and robust commercial condensing unit, the Kirby® Titan offers impressive performance and capacity within a small footprint.

Pre-wired for convenient installation, Kirby® Titan range thrives in harsh ambient conditions and under heavy loads. Being a fully enclosed system, it can be installed indoors or outside.

And because it's from Kirby®, Titan has an enviable reputation for toughness, efficiency and reliability.

Features & Benefits

Kirby® Titan condensing units offer:

- Impressive capacity ranging from 12kW to 41kW
- Enhanced compressor technology
- Designed for harsh conditions up to 45°C
- Quiet and efficient operations
- Easy to service
- Fast installation
- Fully pre-wired
- Fan speed control
- Coil protection as standard



Kirby® Titan Condensing Units – Nomenclature

PP	H	100	A	A1	2

Unit Type
PP Kirby Polar Pack

Compressor Type
H Hermetic Reciprocating
S Semi Hermetic Reciprocating

Nominal Capacity

Fan Size
LM Low / Medium Temperature
LMH Low / Medium / High Temperature
MH Medium / High Temperature

Condenser Type & Variation
A Air cooled

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

TITAN CONDENSING UNITS
R448A Performance Data

PRODUCT NUMBER	DISPLACE-MENT (m3/hr)	AMBIENT TEMPER-ATURE (°C)	CAPACITY WATTS @ SST (°C)												RECEIVER CAPACITY (kg)
			LT						MT			HT			
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	
MEDIUM / HIGH TEMPERATURE – DANFOSS MANEUROP HERMETIC RECIPROCATING COMPRESSORS (MTZ)															
PPH131MHA1-2	21.00	35	–	–	–	–	3,715	5,090	6,710	8,580	10,695	13,045	15,635	–	11.0
		45	–	–	–	–	2,865	4,045	5,460	7,100	8,935	10,920	13,035	–	
PPH153MHA1-2	23.60	35	–	–	–	–	4,775	6,320	8,120	10,190	12,560	15,235	18,210	–	11.0
		45	–	–	–	–	3,845	5,185	6,755	8,560	10,615	12,900	15,400	–	
PPH170MHA1-2	29.80	35	–	–	–	–	4,925	6,715	8,825	11,270	14,040	17,120	20,450	–	11.0
		45	–	–	–	–	3,840	5,360	7,155	9,230	11,570	14,130	16,815	–	
PPH217MHA1-2	37.50	35	–	–	–	–	6,990	9,280	11,915	14,900	18,235	21,890	25,790	–	11.0
		45	–	–	–	–	5,560	7,525	9,790	12,355	15,180	18,205	21,285	–	
PPH251MHA1-2	42.10	35	–	–	–	–	8,450	11,090	14,110	17,515	21,315	25,515	30,055	–	18.7
		45	–	–	–	–	6,720	9,045	11,680	14,625	17,885	21,430	25,155	–	
PPH283MHA1-2	47.30	35	–	–	–	–	9,745	12,805	16,340	20,370	24,890	29,905	35,445	–	18.7
		45	–	–	–	–	7,705	10,410	13,480	16,915	20,710	24,865	29,365	–	
LOW / MEDIUM / HIGH TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)															
PPS126LMH A1-4	19.29	35	–	–	2,555	3,460	4,555	5,875	7,460	9,320	11,455	13,845	16,475	–	11.0
		45	–	–	–	–	3,705	4,845	6,220	7,840	9,680	11,710	13,905	–	
PPS152LMHA1-6	23.13	35	–	–	3,070	4,165	5,480	7,070	8,965	11,190	13,740	16,600	19,740	–	11.0
		45	–	–	–	–	4,465	5,830	7,480	9,415	11,635	14,085	16,730	–	
PPS178LMHA1-4	27.33	35	–	–	3,640	4,920	6,445	8,275	10,450	12,995	15,905	19,170	22,745	–	11.0
		45	–	–	–	–	5,305	6,885	8,760	10,955	13,460	16,255	19,280	–	
PPS205LMHA1-4	31.88	35	–	–	4,160	5,615	7,380	9,495	11,990	14,885	18,195	21,930	26,050	–	11.0
		45	–	–	–	–	6,080	7,895	10,050	12,560	15,430	18,635	22,105	–	
PPS289LMHA1-4	42.81	35	–	–	6,200	8,300	10,785	13,725	17,170	21,160	25,720	30,870	36,590	–	18.7
		45	–	–	–	–	8,910	11,465	14,470	17,945	21,895	26,305	31,135	–	
PPS338LMHA1-4	48.82	35	–	–	7,270	9,675	12,530	15,900	19,845	24,405	29,625	35,530	42,130	–	18.7
		45	–	–	–	–	10,325	13,240	16,665	20,640	25,180	30,290	35,940	–	
LOW / MEDIUM TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)															
PPS242LMA1-4	38.06	35	–	–	5,105	6,850	8,935	11,405	14,300	17,655	21,505	–	–	–	22.0
		45	–	–	–	5,585	7,360	9,470	11,965	14,860	18,180	–	–	–	
PPS328LMA1-4	48.82	35	–	–	7,260	9,605	12,390	15,695	19,580	24,095	29,270	–	–	–	22.0
		45	–	–	–	7,755	10,150	13,010	16,380	20,285	24,735	–	–	–	
PPS370LMA1-4	56.87	35	–	–	8,390	11,075	14,265	18,035	22,450	27,530	33,260	–	–	–	22.0
		45	–	–	–	9,010	11,775	15,050	18,870	23,250	28,170	–	–	–	
PPS411LMA1-4	63.76	35	–	–	9,415	12,450	16,060	20,330	25,340	31,140	37,755	–	–	–	22.0
		45	–	–	–	10,085	13,200	16,905	21,270	26,315	32,035	–	–	–	

- Liquid entering temperature with inherent sub-cooling average 2-3°C
- Return vapour temperature of 20°C. Return vapour temperature should never exceed 20°C for any refrigerant. Refer to specific application envelopes for restrictions.
- Low temperature applications should be restricted to 20K return vapour superheat.
- 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.

TITAN CONDENSING UNITS
R513A Performance Data

PRODUCT NUMBER	DISPLACE-MENT (m3/hr)	AMBIENT TEMPER-ATURE (°C)	CAPACITY WATTS @ SST (°C)												RECEIVER CAPACITY (kg)
			LT						MT			HT			
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	
MEDIUM / HIGH TEMPERATURE – DANFOSS MANEUROP HERMETIC RECIPROCATING COMPRESSORS (MTZ)															
PPH131MHA1-2	21.00	35						3,245	4,245	5,455	6,900	8,610	10,585	12,830	12.7
		45							3,600	4,625	5,865	7,345	9,070	11,030	
PPH153MHA1-2	23.60	35						3,815	5,075	6,570	8,305	10,285	12,520	15,040	12.7
		45							4,150	5,435	6,935	8,660	10,625	12,850	
PPH170MHA1-2	29.80	35						4,770	6,295	8,060	10,075	12,355	14,910	17,775	12.7
		45							5,160	6,690	8,410	10,340	12,495	14,900	
PPH217MHA1-2	37.50	35						6,145	8,015	10,170	12,620	15,380	18,465	21,905	12.7
		45							6,480	8,355	10,460	12,810	15,420	18,305	
PPH251MHA1-2	42.10	35						7,565	9,770	12,335	15,270	18,575	22,265	26,375	26.0
		45							8,135	10,365	12,915	15,795	19,045	22,685	
PPH283MHA1-2	47.30	35						8,715	11,185	14,050	17,325	21,030	25,170	29,765	26.0
		45							9,250	11,750	14,600	17,815	21,385	25,345	
LOW / MEDIUM / HIGH TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)															
PPS126LMHA1-4	19.29	35						3,850	4,915	6,135	7,535	9,120	10,915	12,910	12.7
		45						3,230	4,195	5,300	6,565	7,995	9,605	11,385	
PPS152LMHA1-6	23.13	35						4,735	6,020	7,480	9,115	10,975	13,060	15,360	12.7
		45						3,975	5,125	6,425	7,915	9,575	11,435	13,470	
PPS178LMHA1-4	27.33	35						4,695	5,995	7,485	9,175	11,090	13,235	15,625	12.7
		45						3,905	5,070	6,415	7,935	9,655	11,585	13,740	
PPS205LMHA1-4	31.88	35						5,470	6,925	8,590	10,480	12,620	15,015	17,665	12.7
		45						4,508	5,915	7,405	9,095	11,015	13,140	15,500	
PPS289LMHA1-4	42.81	35						7,777	10,201	13,039	16,352	20,150	24,472	29,310	21.5
		45						6,573	8,625	11,161	14,130	17,524	21,382	25,674	
PPS338LMHA1-4	48.82	35						9,112	11,958	15,271	19,140	23,604	28,684	34,370	21.5
		45						7,742	10,161	13,170	16,665	20,695	25,260	30,351	
LOW / MEDIUM TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)															
PPS242LMA1-4	38.06	35						7,605	9,620	11,935	14,565	17,540	20,850	24,465	21.5
		45						6,350	8,155	10,230	12,605	15,275	18,250	21,495	
PPS328LMA1-4	48.82	35						9,995	12,660	15,685	19,105	22,955	27,235	31,890	21.5
		45						8,300	10,745	13,490	16,600	20,075	23,925	28,080	
PPS370LMA1-4	56.87	35						11,535	14,500	17,880	21,680	25,935	30,665	35,785	21.5
		45						9,650	12,355	15,420	18,860	22,710	26,955	31,525	
PPS411LMA1-4	63.76	35						12,835	16,165	19,970	24,275	29,125	34,510	40,385	21.5
		45						10,710	13,760	17,220	21,135	25,530	30,410	35,710	

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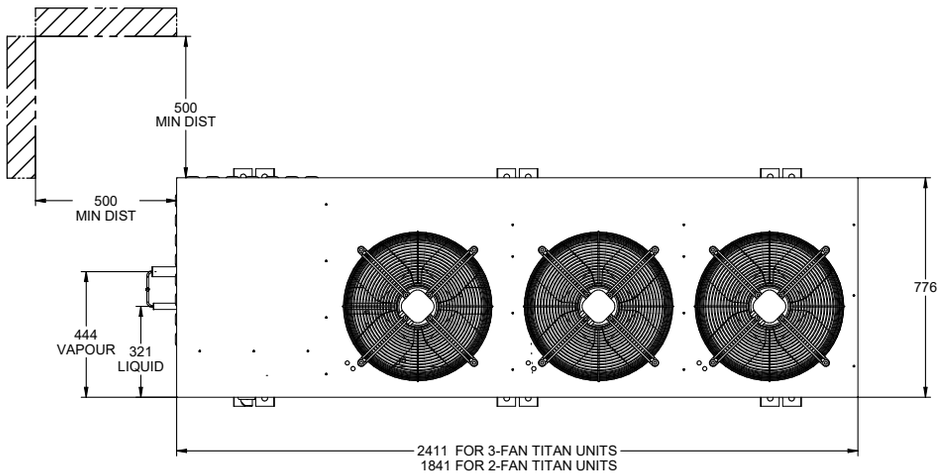
TITAN CONDENSING UNITS
Technical Data

PRODUCT NUMBER	COMPRESSOR PRODUCT NUMBER	CONDENSER FAN DATA			ELECTRICAL DATA				CONNECTIONS		SOUND POWER dB(A)
		NO. OF FANS	DIAMETER (mm)	AIRFLOW (L/S)	MCC	LRA	RLA	INPUT	LIQUID	SUCTION	
MEDIUM / HIGH TEMPERATURE – DANFOSS MANEUROP HERMETIC RECIPROCATING COMPRESSORS (MTZ)											
PPH131MHA1-2	MTZ72-4VM	2	350	1,450	18.3	81.3	10.8	5,415	15.88	34.92	76.5
PPH153MHA1-2	MTZ80-4VM	2	450	2,630	22.1	83.1	13.4	6,810	15.88	34.92	77.0
PPH170MHA1-2	MTZ100-4VM	2	450	2,630	25.1	93.1	15.9	7,965	15.88	34.92	85.0
PPH217MHA1-2	MTZ125-4VM	2	450	2,350	30.1	108.1	17.9	9,860	15.88	34.92	84.0
PPH251MHA1-2	MTZ144-4VM	3	450	3,945	34.7	119.7	22.0	11,650	22.22	34.92	83.0
PPH283MHA1-2	MTZ160-4VM	3	450	3,735	40.7	144.7	24.2	13,100	22.22	34.92	83.0
LOW / MEDIUM / HIGH TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)											
PPS126LMHA1-4	H405CC	2	350	1490	15.8	64.4	10.3	5,440	12.70	28.57	74.5
PPS152LMHA1-6	H505CC	2	450	2630	17.6	66.1	13.5	6,790	15.88	28.57	74.5
PPS178LMHA1-4	H701CC	2	450	2490	22.6	89.1	15.4	7,340	15.88	34.92	75.0
PPS205LMHA1-4	H751CC	2	450	2240	22.6	89.1	16.6	8,290	15.88	34.92	76.5
PPS289LMHA1-4	H1201CC	3	450	3,525	32.7	139.4	23.4	11,720	22.22	34.92	77.0
PPS338LMHA1-4	H1501CC	3	500	4,285	37.6	174.1	28.1	14,700	22.22	34.92	79.0
LOW / MEDIUM TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)											
PPS242LMA1-4	H751CS	3	450	3,945	24.2	90.7	20.1	10,010	22.22	34.92	77.0
PPS328LMA1-4	H1001CS	3	450	3,525	28.7	113.4	25.7	13,750	22.22	34.92	79.0
PPS370LMA1-4	H1501CS	3	450	3,360	32.7	139.4	29.2	15,700	22.22	34.92	80.0
PPS411LMA1-4	H1601CS	3	500	4,285	37.6	174.1	33.7	18,870	22.22	34.92	81.5

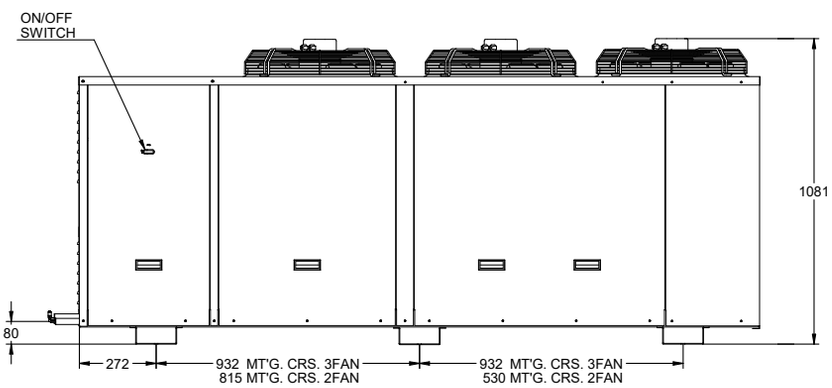
TITAN CONDENSING UNITS
Physical Data

PRODUCT NUMBER	DIMENSIONS (mm)			MOUNTING HOLE (mm)			WEIGHT (kg)	
	HEIGHT	WIDTH	DEPTH	A	B	C	NET	GROSS
MEDIUM / HIGH TEMPERATURE – DANFOSS MANEUROP HERMETIC RECIPROCATING COMPRESSORS (MTZ)								
PPH131MHA1-2	1,060	1,841	840	530	815	776	225	250
PPH153MHA1-2	1,083	1,841	840	530	815	776	229	254
PPH170MHA1-2	1,083	1,841	840	530	815	776	235	260
PPH217MHA1-2	1,083	1,841	840	530	815	776	255	280
PPH251MHA1-2	1,083	2,413	840	932	932	776	320	395
PPH283MHA1-2	1,083	2,413	840	932	932	776	335	405
LOW / MEDIUM / HIGH TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)								
PPS126LMHA1-4	1,060	1,841	840	530	815	776	260	285
PPS152LMHA1-6	1,083	1,841	840	530	815	776	279	304
PPS178LMHA1-4	1,083	1,841	840	530	815	776	287	312
PPS205LMHA1-4	1,083	1,841	840	530	815	776	304	329
PPS289LMHA1-4	1,083	2,413	840	932	932	776	405	475
PPS338LMHA1-4	1,083	2,413	840	932	932	776	425	495
LOW / MEDIUM TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)								
PPS242LMA1-4	1,083	2,413	840	932	932	776	365	435
PPS328LMA1-4	1,083	2,413	840	932	932	776	405	475
PPS370LMA1-4	1,083	2,413	840	932	932	776	425	495
PPS411LMA1-4	1,083	2,413	840	932	932	776	425	495

Plan View

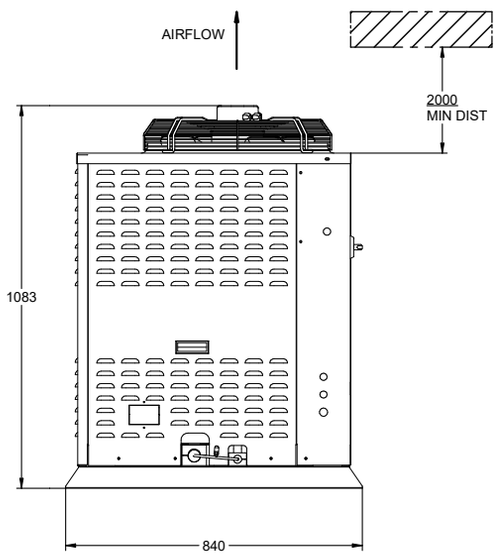


Side View



End View

(Right side of unit)



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