



## 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.

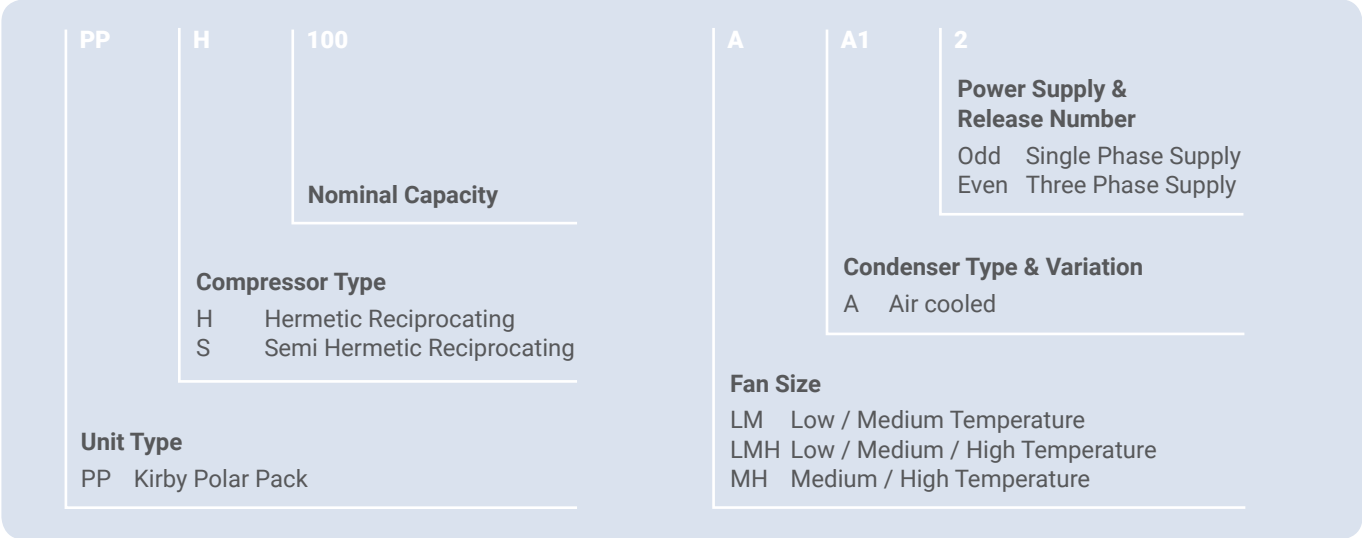
### Features & Benefits

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



# TITAN CONDENSING UNITS

## R404A Performance Data

PRODUCT NUMBER	DISPLACEMENT (m3/hr)	AMBIENT TEMPERATURE (°C)	CAPACITY WATTS @ SST (°C)												RECEIVER CAPACITY (kg)
			LT						MT			HT			
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	
<b>MEDIUM / HIGH TEMPERATURE – DANFOSS MANEUROP HERMETIC RECIPROCATING COMPRESSORS (MTZ)</b>															
PPH131MHA1-2	21.00	35	-	-	-	-	5,235	6,700	8,400	10,300	12,355	14,520	16,755	-	11.9
		45	-	-	-	-	3,985	5,275	6,730	8,320	9,985	11,685	13,375	-	
PPH153MHA1-2	23.60	35	-	-	-	-	5,895	7,650	9,655	11,875	14,265	16,770	19,345	-	11.9
		45	-	-	-	-	4,435	5,980	7,720	9,600	11,580	13,595	15,590	-	
PPH170MHA1-2	29.80	35	-	-	-	-	6,460	8,440	10,725	13,270	16,025	18,920	21,895	-	11.9
		45	-	-	-	-	4,835	6,630	8,615	10,690	12,830	15,040	17,280	-	
PPH217MHA1-2	37.50	35	-	-	-	-	8,835	11,295	14,115	17,225	20,555	24,025	27,520	-	11.9
		45	-	-	-	-	6,795	8,990	11,395	13,930	16,545	19,195	21,750	-	
PPH251MHA1-2	42.10	35	-	-	-	-	10,300	13,085	16,285	19,860	23,735	27,820	31,995	-	20.0
		45	-	-	-	-	8,000	10,395	13,095	16,045	19,180	22,385	25,500	-	
PPH283MHA1-2	47.30	35	-	-	-	-	11,675	14,780	18,360	22,365	26,735	31,410	36,320	-	20.0
		45	-	-	-	-	9,150	11,825	14,830	18,110	21,615	25,255	28,950	-	
<b>LOW / MEDIUM / HIGH TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)</b>															
PPS126LMHA1-4	19.29	35	-	-	3,065	4,050	5,200	6,565	8,160	9,980	12,005	14,185	16,465	-	11.9
		45	-	-	-	3,185	4,150	5,300	6,650	8,180	9,855	11,615	-	-	
PPS152LMHA1-6	23.13	35	-	-	3,685	4,875	6,260	7,900	9,805	11,980	14,400	17,005	19,730	-	11.9
		45	-	-	-	3,840	5,005	6,380	7,990	9,825	11,845	13,975	-	-	
PPS178LMHA1-4	27.33	35	-	-	4,365	5,755	7,365	9,245	11,430	13,915	16,675	19,640	22,735	-	11.9
		45	-	-	-	4,590	5,945	7,530	9,360	11,430	13,705	16,125	-	-	
PPS178LMHA1-6	27.33	35	-	-	4,425	5,835	7,465	9,380	11,595	14,115	16,905	19,900	23,010	-	11.9
		45	-	-	-	4,630	6,000	7,605	9,455	11,550	13,850	16,285	-	-	
PPS205LMHA1-4	31.88	35	-	-	4,990	6,570	8,435	10,605	13,110	15,940	19,075	22,465	26,035	-	11.9
		45	-	-	-	5,255	6,815	8,635	10,735	13,105	15,710	18,485	-	-	
PPS207LMHA1-6	31.88	35	-	-	5,220	6,855	8,775	11,005	13,565	16,450	19,625	23,050	26,630	-	11.9
		45	-	-	-	5,490	7,080	8,935	11,070	13,465	16,090	18,860	-	-	
PPS289LMHA1-4	42.81	35	-	-	7,440	9,710	12,320	15,330	18,775	22,660	26,960	31,625	36,570	-	20.0
		45	-	-	-	7,765	9,985	12,545	15,460	18,725	22,295	26,095	-	-	
PPS338LMHA1-4	48.82	35	-	-	-	11,320	14,315	17,765	21,705	26,135	31,050	36,405	42,105	-	20.0
		45	-	-	-	9,035	11,570	14,485	17,805	21,535	25,640	30,045	-	-	
<b>LOW / MEDIUM TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)</b>															
PPS242LMA1-4	38.06	35	-	-	6,155	8,065	10,265	12,775	15,600	18,725	22,125	-	-	-	20.0
		45	-	-	-	6,490	8,340	10,440	12,795	15,395	18,195	-	-	-	
PPS328LMA1-4	48.82	35	-	-	8,755	11,310	14,240	17,585	21,360	25,550	30,120	-	-	-	20.0
		45	-	-	-	9,010	11,505	14,345	17,520	21,015	24,760	-	-	-	
PPS370LMA1-4	56.87	35	-	-	10,120	13,045	16,390	20,210	24,490	29,195	34,225	-	-	-	20.0
		45	-	-	-	10,470	13,350	16,590	20,185	24,085	28,200	-	-	-	
PPS411LMA1-4	63.76	35	-	-	11,355	14,660	18,455	22,780	27,645	33,020	38,855	-	-	-	20.0
		45	-	-	-	11,725	14,960	18,635	22,750	27,260	32,065	-	-	-	

# TITAN CONDENSING UNITS

## R134a Performance Data

PRODUCT NUMBER	DISPLACEMENT (m <sup>3</sup> /hr)	AMBIENT TEMPERATURE (°C)	CAPACITY WATTS @ SST (°C)													RECEIVER CAPACITY (kg)
			LT						MT			HT				
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10		
<b>MEDIUM / HIGH TEMPERATURE – DANFOSS MANEUROP HERMETIC RECIPROCATING COMPRESSORS (MTZ)</b>																
PPH131MHA1-2	21.00	35	-	-	-	-	-	-	4,250	5,610	7,235	9,150	11,355	13,850	13.8	
		45	-	-	-	-	-	-	3,500	4,715	6,160	7,850	9,790	11,985		
PPH153MHA1-2	23.60	35	-	-	-	-	-	-	5,190	6,735	8,570	10,710	13,165	15,940	13.8	
		45	-	-	-	-	-	-	4,305	5,685	7,310	9,195	11,360	13,810		
PPH170MHA1-2	29.80	35	-	-	-	-	-	-	5,705	7,585	9,785	12,300	15,135	18,295	13.8	
		45	-	-	-	-	-	-	4,665	6,315	8,230	10,420	12,895	15,665		
PPH217MHA1-2	37.50	35	-	-	-	-	-	5,330	7,265	9,570	12,255	15,315	18,750	22,550	13.8	
		45	-	-	-	-	-	-	5,855	7,885	10,235	12,910	15,910	19,245		
PPH251MHA1-2	42.10	35	-	-	-	-	-	6,970	9,335	12,110	15,290	18,885	22,885	27,295	23.3	
		45	-	-	-	-	-	-	7,740	10,210	13,020	16,180	19,710	23,615		
PPH283MHA1-2	47.30	35	-	-	-	-	-	7,785	10,400	13,480	17,035	21,065	25,560	30,500	23.3	
		45	-	-	-	-	-	-	8,620	11,340	14,450	17,945	21,810	26,030		
<b>LOW / MEDIUM / HIGH TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)</b>																
PPS126LMHA1-4	19.29	35	-	-	-	-	-	3,575	4,670	5,960	7,460	9,200	11,185	13,415	13.8	
		45	-	-	-	-	-	-	3,985	5,145	6,500	8,065	9,845	11,830		
PPS152LMHA1-6	23.13	35	-	-	-	-	-	4,360	5,695	7,265	9,090	11,185	13,570	16,235	13.8	
		45	-	-	-	-	-	-	4,820	6,225	7,860	9,740	11,880	14,280		
PPS178LMHA1-4	27.33	35	-	-	-	-	-	5,080	6,580	8,340	10,380	12,730	15,390	18,360	13.8	
		45	-	-	-	-	-	-	5,620	7,190	9,010	11,110	13,470	16,110		
PPS178LMHA1-6	27.33	35	-	-	-	-	-	5,020	6,560	8,380	10,515	12,990	15,810	18,985	13.8	
		45	-	-	-	-	-	-	5,560	7,185	9,095	11,315	13,850	16,710		
PPS205LMHA1-4	31.88	35	-	-	-	-	-	6,160	7,920	9,950	12,290	14,970	18,000	21,370	13.8	
		45	-	-	-	-	-	-	5,160	6,750	8,590	10,710	13,110	15,820		18,810
PPS207LMHA1-6	31.88	35	-	-	-	-	-	6,075	7,885	10,010	12,485	15,340	18,585	22,225	13.8	
		45	-	-	-	-	-	-	5,060	6,685	8,600	10,835	13,410	16,335		19,600
PPS289LMHA1-4	42.81	35	-	-	-	-	-	7,700	10,100	12,910	16,190	19,950	24,230	29,020	23.3	
		45	-	-	-	-	-	-	8,540	11,050	13,990	17,350	21,170	25,420		
PPS338LMHA1-4	48.82	35	-	-	-	-	-	-	11,840	15,120	18,950	23,370	28,400	34,030	23.3	
		45	-	-	-	-	-	-	10,060	13,040	16,500	20,490	25,010	30,050		
<b>LOW / MEDIUM TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)</b>																
PPS242LMA1-4	38.06	35	-	-	-	-	-	7,100	9,190	11,640	14,480	17,720	21,350	25,370	23.3	
		45	-	-	-	-	-	-	5,930	7,790	9,980	12,530	15,430	18,690		22,290
PPS328LMA1-4	48.82	35	-	-	-	-	-	9,330	12,090	15,300	18,990	23,190	27,890	33,070	23.3	
		45	-	-	-	-	-	-	7,750	10,260	13,160	16,500	20,280	24,500		29,120
PPS370LMA1-4	56.87	35	-	-	-	-	-	10,770	13,850	17,440	21,550	26,200	31,400	37,110	23.3	
		45	-	-	-	-	-	-	9,010	11,800	15,040	18,750	22,940	27,600		32,690
PPS411LMA1-4	63.76	35	-	-	-	-	-	11,980	15,440	19,480	24,130	29,420	35,340	41,880	23.3	
		45	-	-	-	-	-	-	10,000	13,140	16,800	21,010	25,790	31,140		37,030

# TITAN CONDENSING UNITS

## R448A Performance Data

PRODUCT NUMBER	DISPLACEMENT (m3/hr)	AMBIENT TEMPERATURE (°C)	CAPACITY WATTS @ SST (°C)												RECEIVER CAPACITY (kg)
			LT						MT			HT			
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	
<b>MEDIUM / HIGH TEMPERATURE – DANFOSS MANEUROP HERMETIC RECIPROCATING COMPRESSORS (MTZ)</b>															
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	-	
<b>LOW / MEDIUM / HIGH TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)</b>															
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	-	
PPS178LMHA1-6	27.33	35	-	-	3,690	4,985	6,535	8,395	10,605	13,180	16,130	19,425	23,025	-	11.0
		45	-	-	-	-	5,350	6,950	8,850	11,070	13,600	16,420	19,455	-	
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	-	
PPS207LMHA1-6	31.88	35	-	-	4,350	5,860	7,680	9,850	12,405	15,360	18,725	22,500	26,640	-	11.0
		45	-	-	-	-	6,320	8,170	10,360	12,905	15,800	19,015	22,470	-	
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	-	
<b>LOW / MEDIUM TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)</b>															
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	-	-	

# 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	
<b>MEDIUM / HIGH TEMPERATURE – DANFOSS MANEUROP HERMETIC RECIPROCATING COMPRESSORS (MTZ)</b>											
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
<b>LOW / MEDIUM / HIGH TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)</b>											
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
PPS178LMHA1-6	H705CC	2	450	2490	22.6	89.1	15.9	7,780	15.88	34.92	75.5
PPS205LMHA1-4	H751CC	2	450	2240	22.6	89.1	16.6	8,290	15.88	34.92	76.5
PPS207LMHA1-6	H755CC	2	450	2240	22.6	89.1	17.3	8,800	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
<b>LOW / MEDIUM TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)</b>											
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

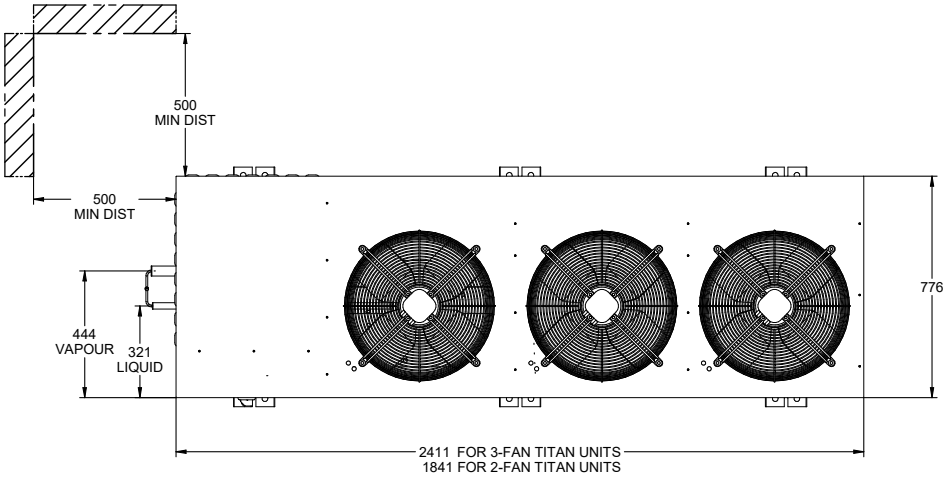
## Physical Data

PRODUCT NUMBER	DIMENSIONS (mm)			MOUNTING HOLE (mm)			WEIGHT (kg)	
	HEIGHT	WIDTH	DEPTH	A	B	C	NET	GROSS
<b>MEDIUM / HIGH TEMPERATURE – DANFOSS MANEUROP HERMETIC RECIPROCATING COMPRESSORS (MTZ)</b>								
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
<b>LOW / MEDIUM / HIGH TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CC)</b>								
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
PPS178LMHA1-6	1,083	1,841	840	530	815	776	287	312
PPS205LMHA1-4	1,083	1,841	840	530	815	776	304	329
PPS207LMHA1-6	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
<b>LOW / MEDIUM TEMPERATURE – DORIN SEMI-HERMETIC RECIPROCATING COMPRESSORS (CS)</b>								
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

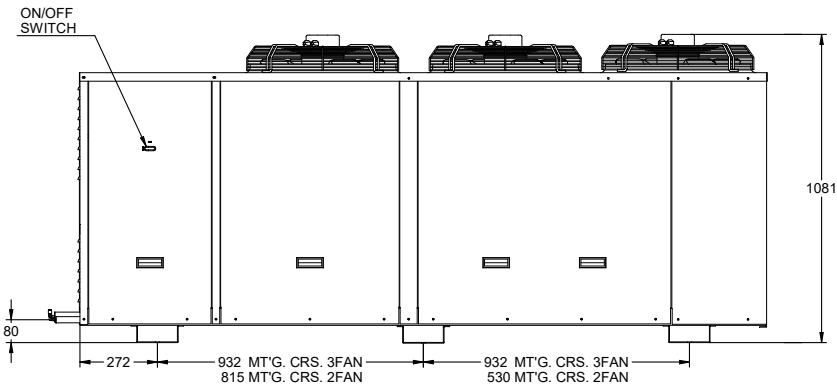
# TITAN CONDENSING UNITS

## Physical Data

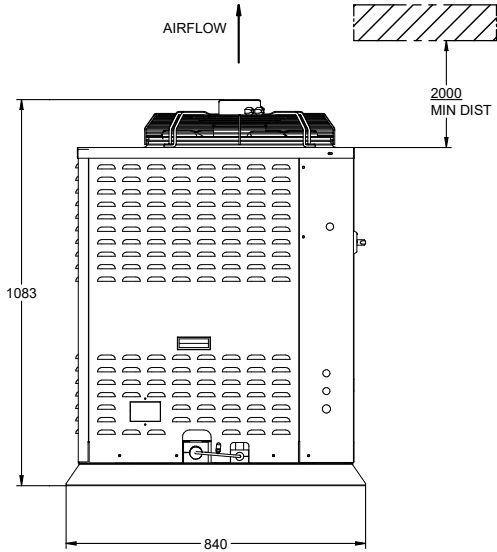
Plan View



Side View



End View  
(Right side of unit)





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