POMPE A CHALEUR AIR/AIR

PRC-XXXHWN1-R(C)



Rooftop Air/Air-Condensé par air

- Installation extérieure
- Technologie avec compresseurs on/off
- Polyvalence d'application avec une approche modulaire
- Réfrigérant R410A
- Haut rendement saisonnier et à pleine charge avec des dimensions compactes



Optimisation de la conception du système

Pour obtenir le plus de confort avec la plus faible consommation d'énergie avec POWERS, il est important de prendre en compte les considérations suivantes :

♣ Choisissez des émetteurs de chaleur qui permettent au système de pompe à chaleur de fonctionner à une température d'eau chaude aussi basse que possible tout en assurant un chauffage suffisant.

Caractéristiques techniques

Nominal ton		(Ton)	7,5	10		12,5	
Model			PRC-075HWN1-R(C)	PRC-100HWN1-R(C)		PRC-125HWN1-R(C)	
Power supply			380 - 415V 3Ph~ 50Hz	380 - 415V 3Ph~ 50Hz		380 - 415V 3Ph~ 50Hz	
Cooling	Cooking capacity	Btu/h	89000	120000		150000	
		kW	260	350		440	
	Power input	kW	79	107		133	
Heating	Heating capacity	Btu/h	103000	137000		154000	
		kW	300	400		450	
	Power input	kW	89	119		132	
Max input consumption		kW	120	160		197	
Max current		A	248	288		382	
Performance	Indoor air flow	CFM	2830	4100		5500	
	ESP	Pa	Default 80 0 - 250	Default 90 0 - 250		Default 110 0 - 275	
	EER	Btu/hW	113	112		113	
	COP	Btu/hW	116	115		117	
Indoor coil	Number of rows	/	3	4		4+4	
	Fin spacing	mm	13	15		13+13	
	Fin type	/	Hydrophilic aluminum fin	Hydrophilic aluminum fin		Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7	Φ7		Φ7+Φ7	
	Tube type	/	Inner grooved copper pipe	Inner grooved copper pipe		Inner grooved copper pipe	
Indoor fan	Type / Quantity	/	Centrifugal / 1	Centrifugal / 1		Centrifugal / 1	
	Drive type	/	Direct	Belt		Belt	
	Motor quantity	/	1	1		1	
	Motor model	/	YKS-750-4-2	YKS-1500-4-9		YKSJ-3000-4-11	
	Motor capacitor	/	25μF/450V	/		/	
	Motor input	W	1600/1350/1150	/		/	
	Motor speed	RPM	1090/985/895	1400		1420	
Compressor	Type	/	Scroll / 1	Scroll / 2		Scroll / 2	
	Model	/	HCJ106	E654DH-65D2G		ZP122KCE-TFD-522	
	Brand	/	Danfoss	Hitachi	Hitachi	Copeland	
	Capacity	W	26100	17100	17100	14700	29900
	Input	W	8080	5700	5700	4750	9190
	RLA	A	143	9.6	9.6	109	18
	LRA	A	1212	66	66	64	127
	Refrigerantoil	ml	2460	1300	1300	1685	2513
Outdoor coil	Number of rows	/	3	2.5		3	
	Fin spacing	mm	1.5	1.5		1.5	
	Fin type	/	Hydrophilic aluminum fin	Hydrophilic aluminum fin		Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7	Φ7		Φ7	
	Tube type	/	Inner grooved copper pipe	Inner grooved copper pipe		Inner grooved copper pipe	

Caractéristiques techniques

Nominal ton		(Ton)	7,5	10		12,5	
Model			PRC-075HWN1-R(C)	PRC-100HWN1-R(C)		PRC-125HWN1-R(C)	
Power supply			380 - 415V 3Ph~ 50Hz	380 - 415V 3Ph~ 50Hz		380 - 415V 3Ph~ 50Hz	
Cooling	Cooking capacity	Btu/h	89000	120000		150000	
		kW	260	350		440	
	Power input	kW	79	107		133	
Heating	Heating capacity	Btu/h	103000	137000		154000	
		kW	300	400		450	
	Power input	kW	89	119		132	
Max input consumption		kW	120	160		197	
Max current		A	248	288		382	
Performance	Indoor air flow	CFM	2830	4100		5500	
	ESP	Pa	Default 80 0 - 250	Default 90 0 - 250		Default 110 0 - 275	
	EER	Btu/hW	113	112		113	
	COP	Btu/hW	116	115		117	
Indoor coil	Number of rows	/	3	4		4+4	
	Fin spacing	mm	13	15		13+13	
	Fin type	/	Hydrophilic aluminum fin	Hydrophilic aluminum fin		Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7	Φ7		Φ7+Φ7	
	Tube type	/	Inner grooved copper pipe	Inner grooved copper pipe		Inner grooved copper pipe	
Indoor fan	Type / Quantity	/	Centrifugal / 1	Centrifugal / 1		Centrifugal / 1	
	Drive type	/	Direct	Belt		Belt	
	Motor quantity	/	1	1		1	
	Motor model	/	YKS-750-4-2	YKS-1500-4-9		YKSJ-3000-4-11	
	Motor capacitor	/	25μF/450V	/		/	
	Motor input	W	1600/1350/1150	/		/	
	Motor speed	RPM	1090/985/895	1400		1420	
Compressor	Type	/	Scroll / 1	Scroll / 2		Scroll / 2	
	Model	/	HCJ106	E654DH-65D2G		ZP122KCE-TFD-522	
	Brand	/	Danfoss	Hitachi	Hitachi	Copeland	
	Capacity	W	26100	17100	17100	14700	29900
	Input	W	8080	5700	5700	4750	9190
	RLA	A	143	9.6	9.6	109	18
	LRA	A	1212	66	66	64	127
	Refrigerantoil	ml	2460	1300	1300	1685	2513
Outdoor coil	Number of rows	/	3	2.5		3	
	Fin spacing	mm	1.5	1.5		1.5	
	Fin type	/	Hydrophilic aluminum fin	Hydrophilic aluminum fin		Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7	Φ7		Φ7	
	Tube type	/	Inner grooved copper pipe	Inner grooved copper pipe		Inner grooved copper pipe	

Caractéristiques techniques

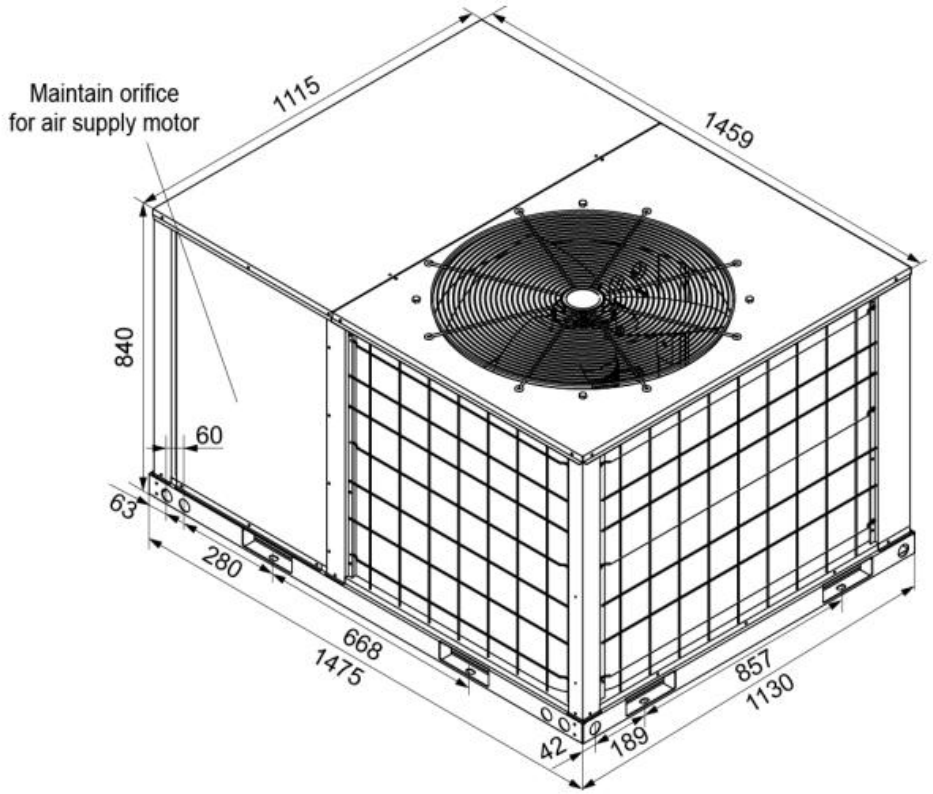
Nominal ton	(Ton)		17,5		25		30	
Model			PRC-175HWN1-R(C)		PRC-250HWN1-R(C)		PRC-300HWN1-R(C)	
Power supply			380 - 415V 3Ph~ 50Hz		380 - 415V 3Ph~ 50Hz		380 - 415V 3Ph~ 50Hz	
Cooling	Cooling capacity	Btu/h	208000		300000		335000	
		kW	61		88		98	
	Power input	kW	19,1		28,9		32,8	
Heating	Heating capacity	Btu/h	218000		330000		380000	
		kW	64		97		111,5	
	Power input	kW	19,5		30,3		36,5	
Max input consumption		kW	27		38,5		49,5	
Max current		A	55,4		74,3		81,7	
Performance	Indoor air flow	CFM	7600		10000		11200	
	ESP	Pa	Default 110 0-250		Default 130 0-350		Default 270 25-400	
	EER	Btu/hW	10,9		10,4		10,2	
	COP	Btu/hW	11,2		10,9		10,4	
Indoor coil	Number of rows		3		4		4	
	Fin spacing	mm	1,3		1,6		1,6	
	Fin type		Hydrophilic aluminum fin		Hydrophilic aluminum fin		Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7		Φ8		Φ8	
	Tube type		Inner grooved copper pipe		Inner grooved copper pipe		Inner grooved copper pipe	
Indoor fan	Type / Quantity		Centrifugal / 1		Centrifugal / 1		Centrifugal / 1	
	Drive type		Belt		Belt		Belt	
	Motor quantity		1		1		1	
	Motor model		YKSJ-4000-4-9		YKSJ-7500-4-14		YKSJ-7500-4-14	
	Motor capacitor		/		/		/	
	Motor input	W	/		/		/	
	Motor speed	RPM	1440		1440		1440	
Compressor	Type / Quantity		Scroll / 2		Scroll / 2		Scroll / 2	
	Model		ZP122KCE-TFD-522	ZP122KCE-TFD-522	SH161 A4ALC	SH161 A4ALC	SH184 A4ALC	SH184 A4ALC
	Brand		Copeland	Copeland	Danfoss	Danfoss	Danfoss	Danfoss
	Capacity	W	29900	29900	38300	38300	44661	44661
	Input	W	9190	9190	12145	12145	13732	13732
	RLA	A	18	18	23.6	23.6	27.6	27.6
	LRA	A	127	127	158	158	197	197
	Refrigerantoil	ml	2513	2513	3300	3300	3600	3600
Outdoor coil	Number of rows		2.5+2.5		3+2+3+2		3+3+3+3	
	Fin spacing	mm	1.5+1.5		1.6+1.6+1.6+1.6		1.6+1.6+1.6+1.6	
	Fin type		Hydrophilic aluminum fin		Hydrophilic aluminum fin		Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7+Φ7		Φ8+Φ8+Φ8+Φ8		Φ8+Φ8+Φ8+Φ8	
	Tube type		Inner grooved copper pipe		Inner grooved copper pipe		Inner grooved copper pipe	

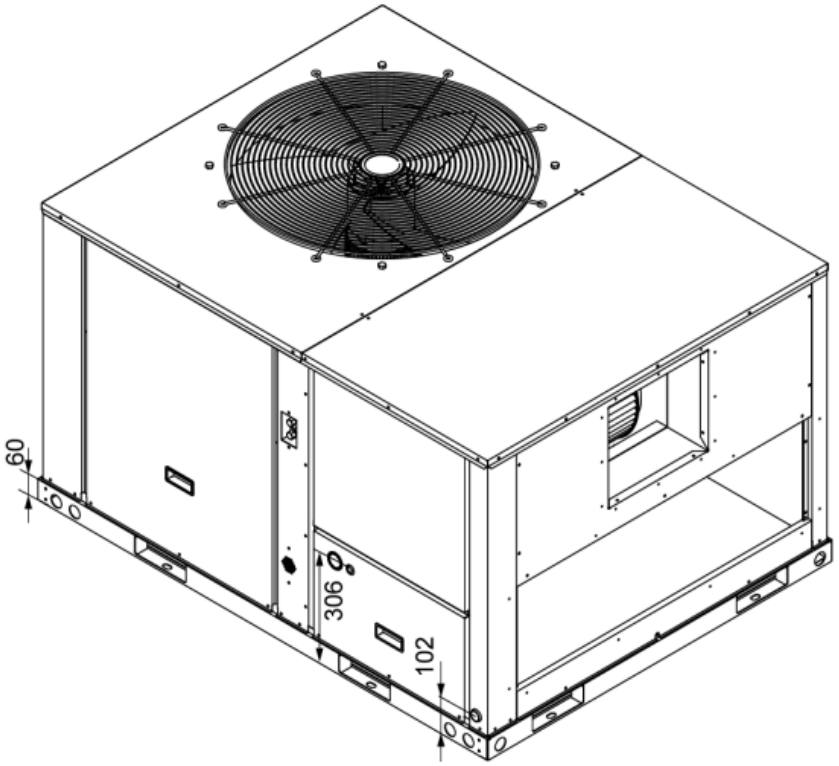
Caractéristiques techniques

Nominal ton	(Ton)		17,5	25	30
Model			PRC-175HWN1-R(C)	PRC-250HWN1-R(C)	PRC-300HWN1-R(C)
Outdoor fan	Type	\	Axial	Axial	Axial
	Quantity	\	2	2	2
	Drive type	\	Direct	Direct	Direct
	Motor quantity	\	2	2	2
	Motor model	\	YKS-550-6-4-2	YKSJ-1500-6-7	YKSJ-1500-6-7
	Motor capacitor	\	25μF/450V	/	/
	Motor input	W	740/640	/	/
	Fan speed	RPM	880/810	910	910
Refrigerant	Type	\	R410A	R410A	R410A
	Volume	kg	5.8+5.8	8.7+8.7	10+10
	Control	\	Throttle valve	Capillary	Capillary
Sound pressure level	dB(A)	\	760	76,8	77,9
Wired controller	\	\	KJR-12B/dP(T)-E(B)	KJR-12B/dP(T)-E(B)	KJR-12B/dP(T)-E(B)
Centralized controller (Optional)	\	\	Yes	Yes	Yes
Ambient temperature (Cooling)	°C	\	10-46	10-46	10-46
Ambient temperature (Heating)	°C	\	-9-24	-9-24	-9-24
System stage	\	\	2	2	2
Dimensions	Net (W×H×D)	mm	1670×1247×2192	2320×1245×2220	2320×1245×2220
Weight	Packing (W×H×D)	mm	1695×1284×2212	2330×1275×2230	2330×1275×2230
	Net	kg	615	940	970
	Gross	kg	645	970	1000

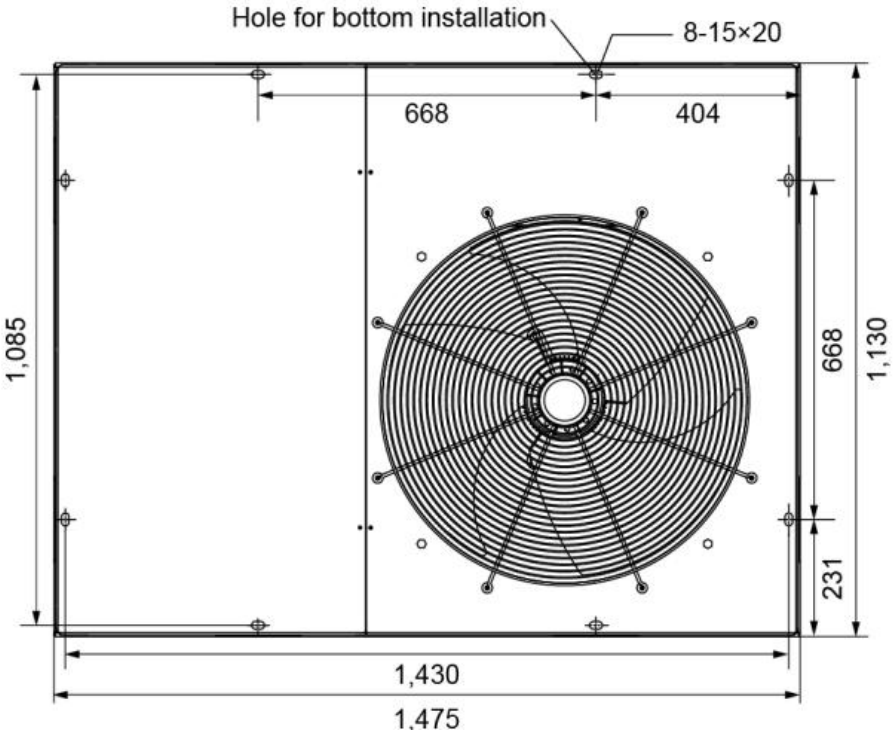
Dimensions

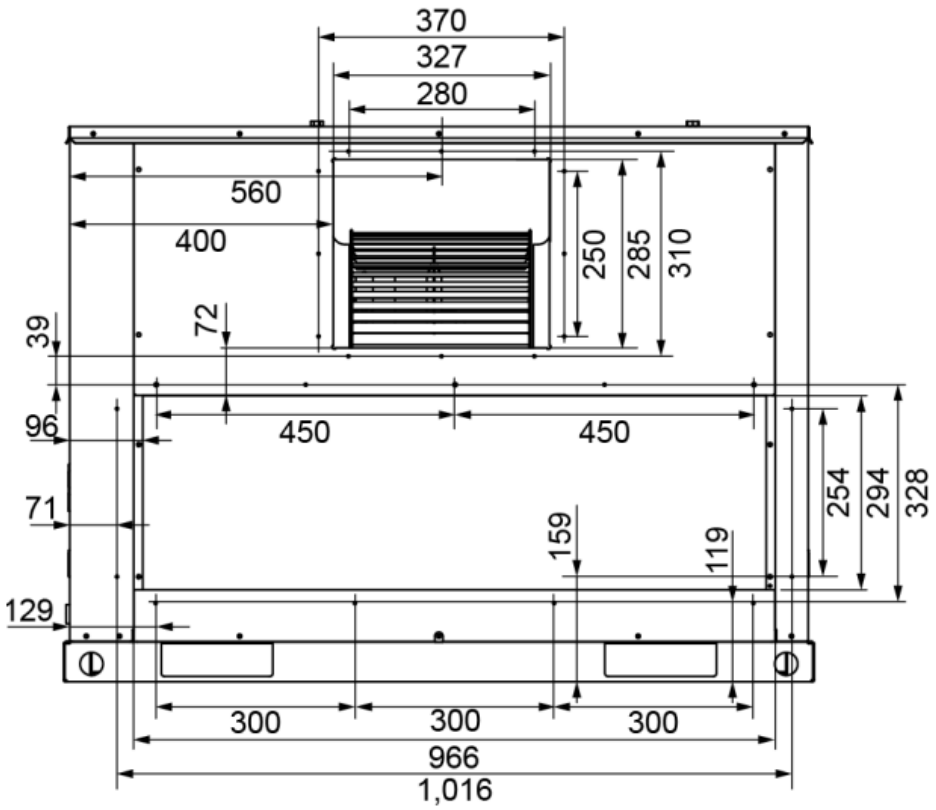
PRC-075HWN1-R(C)): (Unit**: mm)**



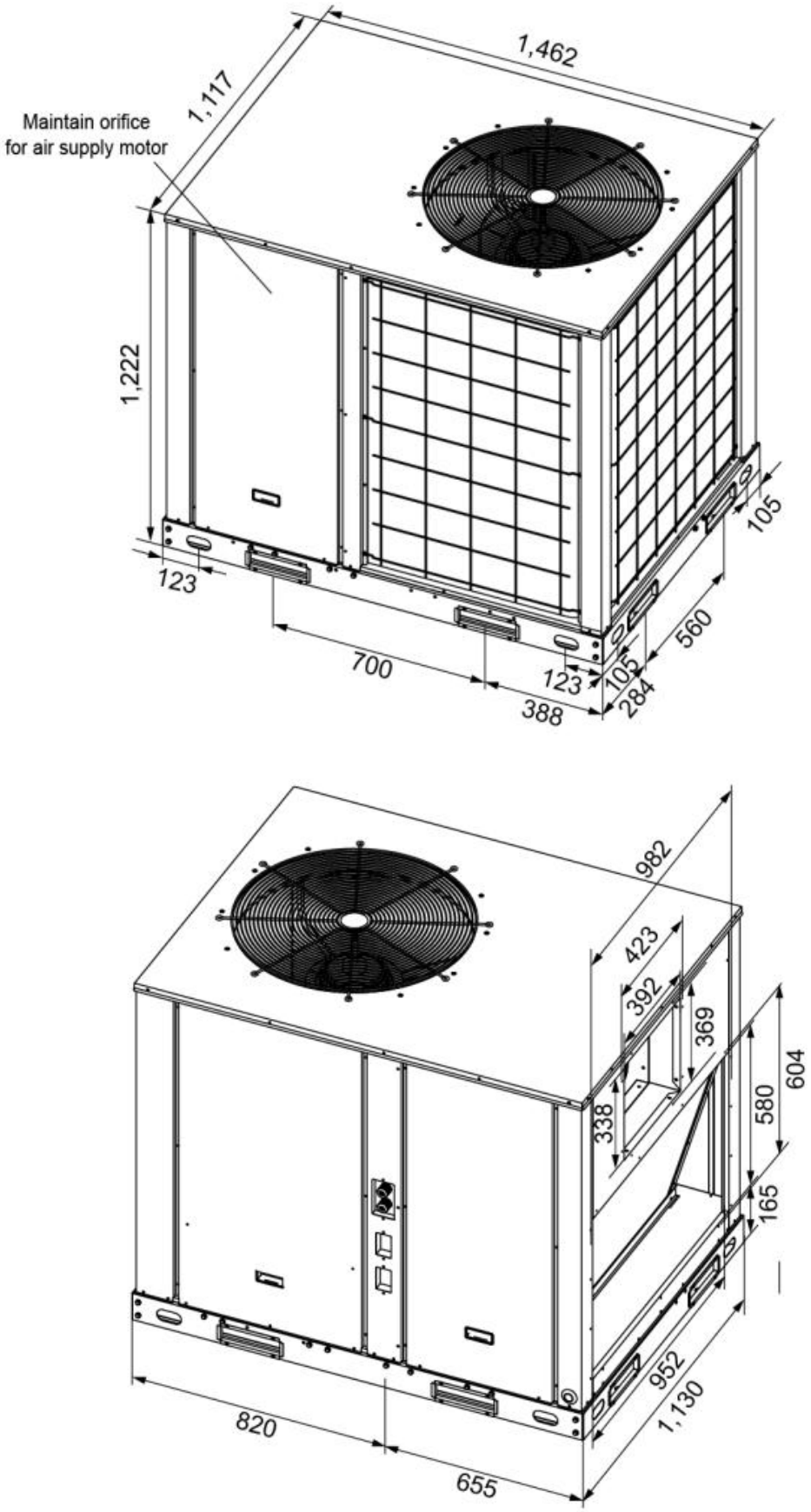


PRC-075HWN1-R(C)): (Unit**: mm)**



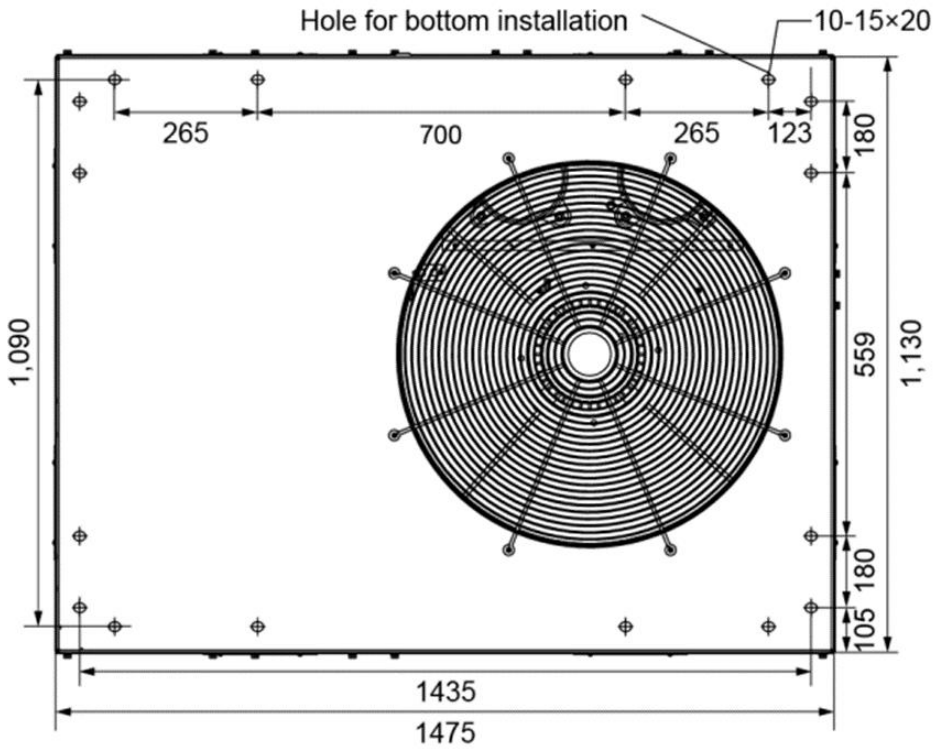


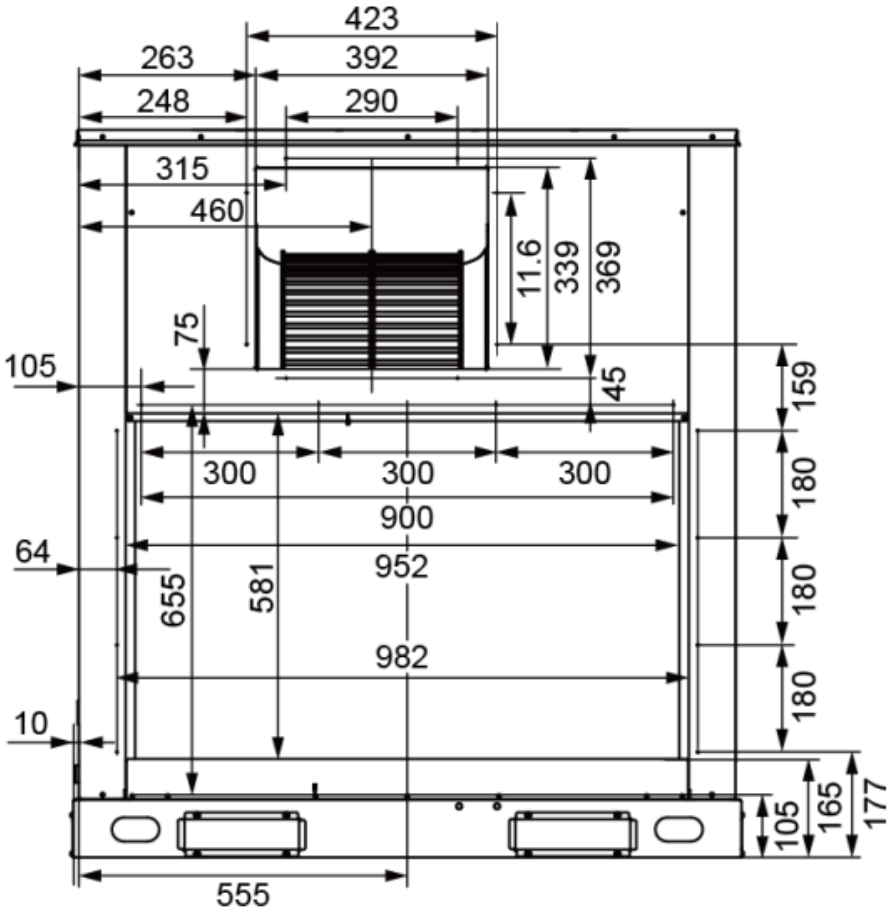
PRC-100HWN1-R(C) (Unit**: mm)**



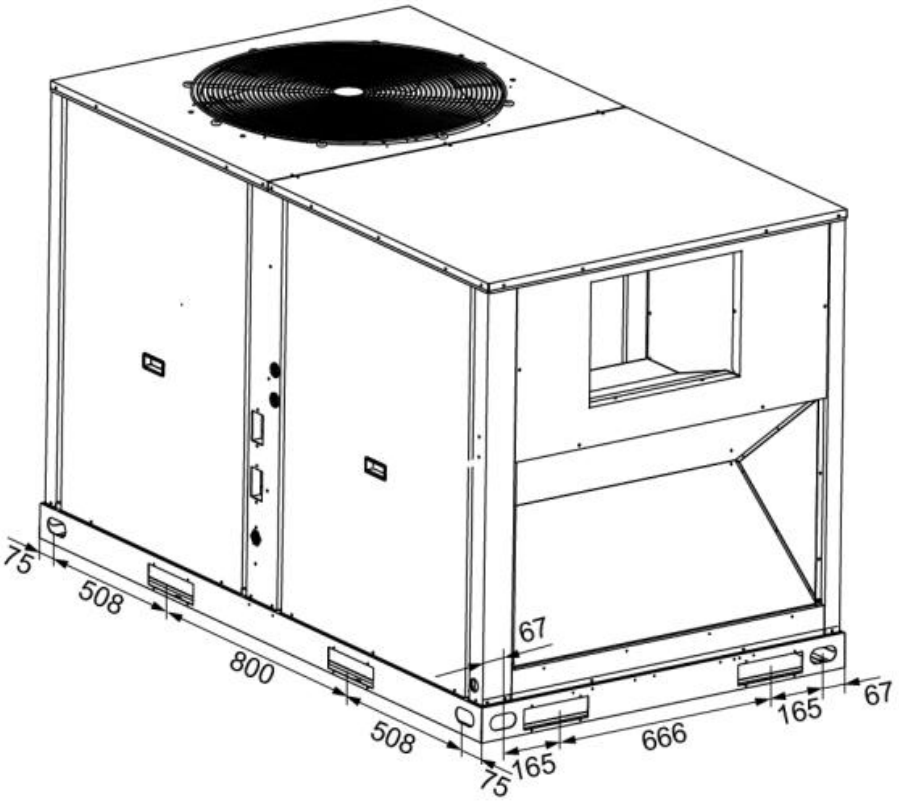
POWERS

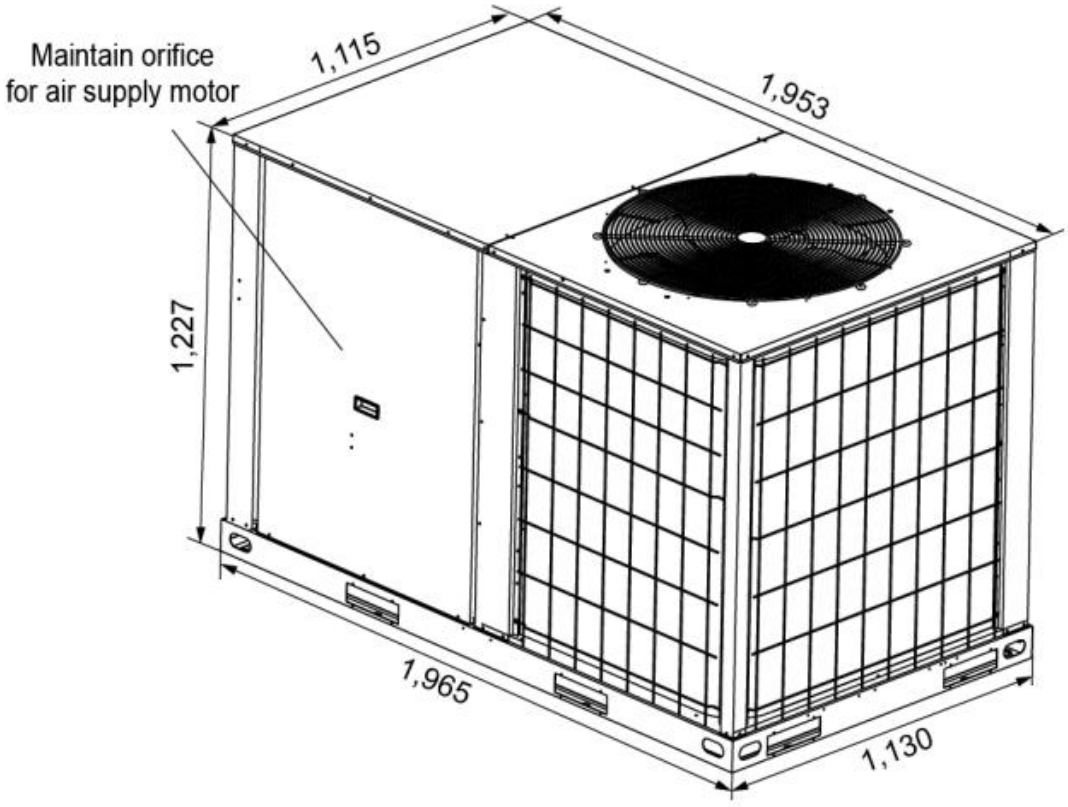
PRC-100HWN1-R(C): (Unit**: mm)**



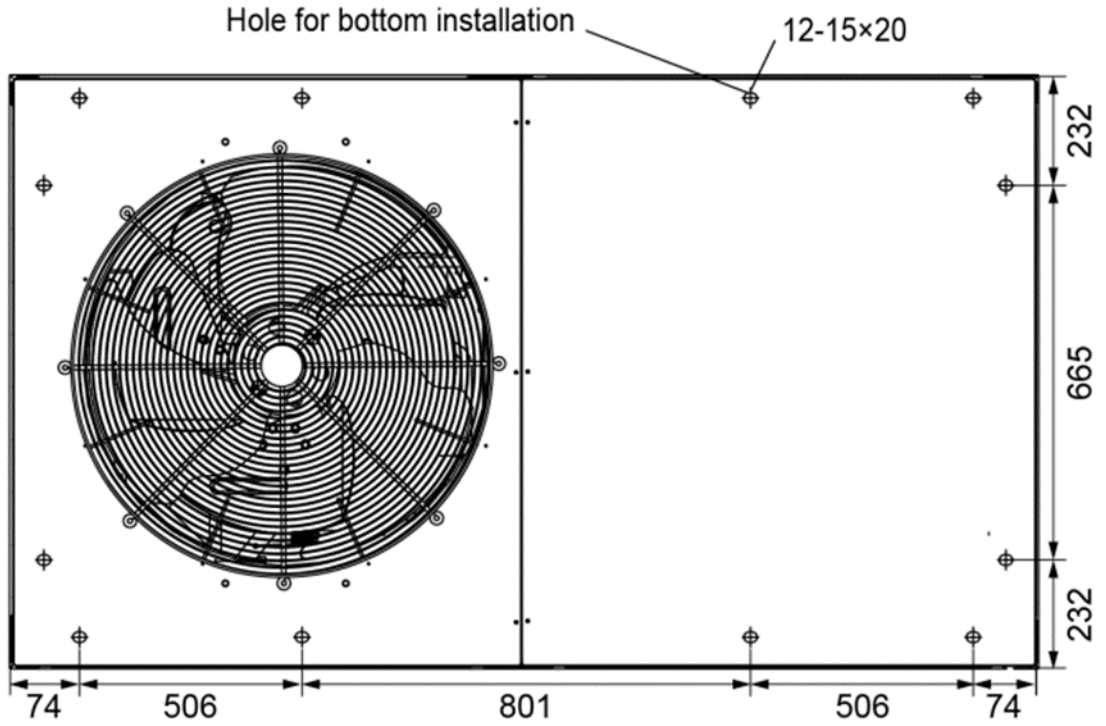


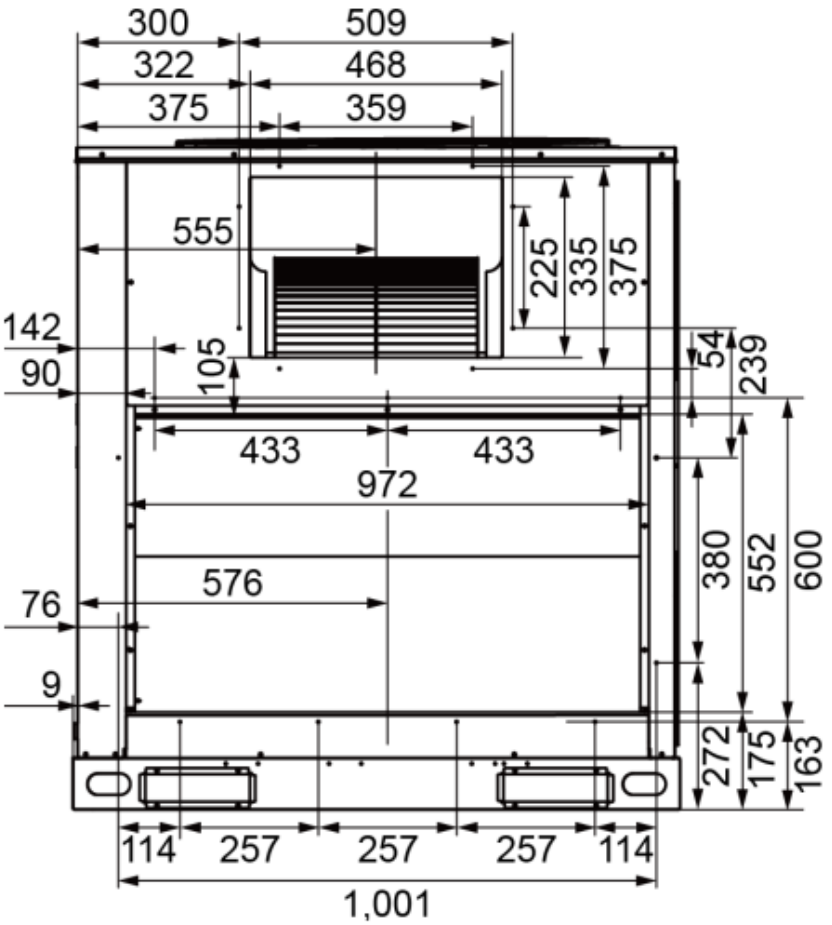
PRC-150HWN1-R(C) :(Unit**: mm)**





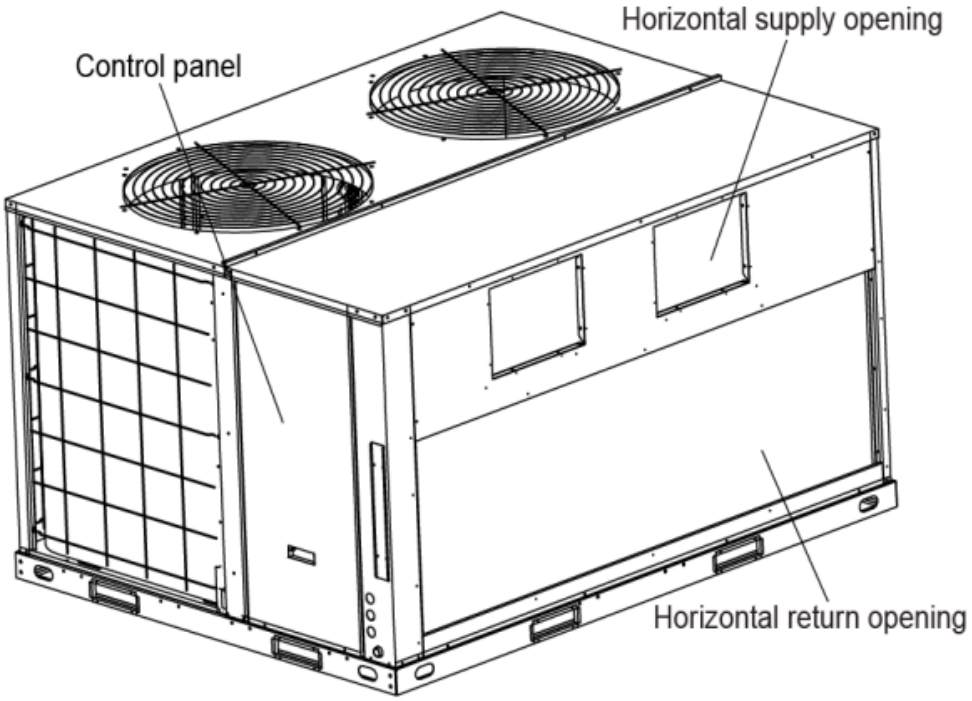
PRC-150HWN1-R(C) :(Unit: mm)

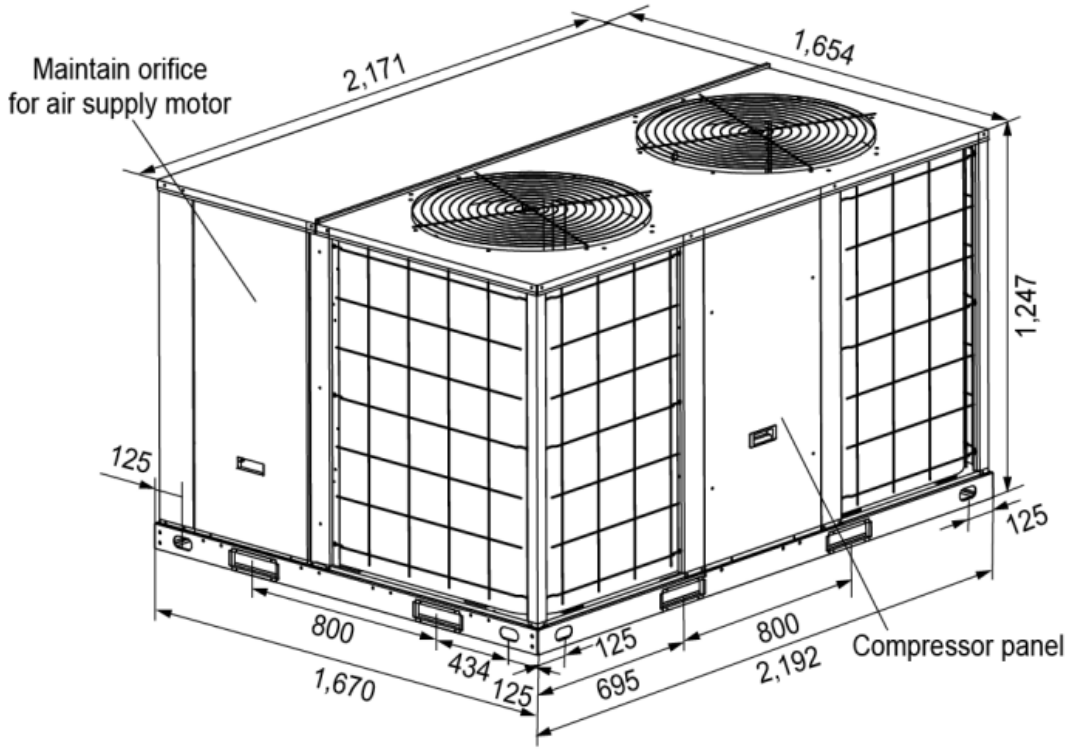




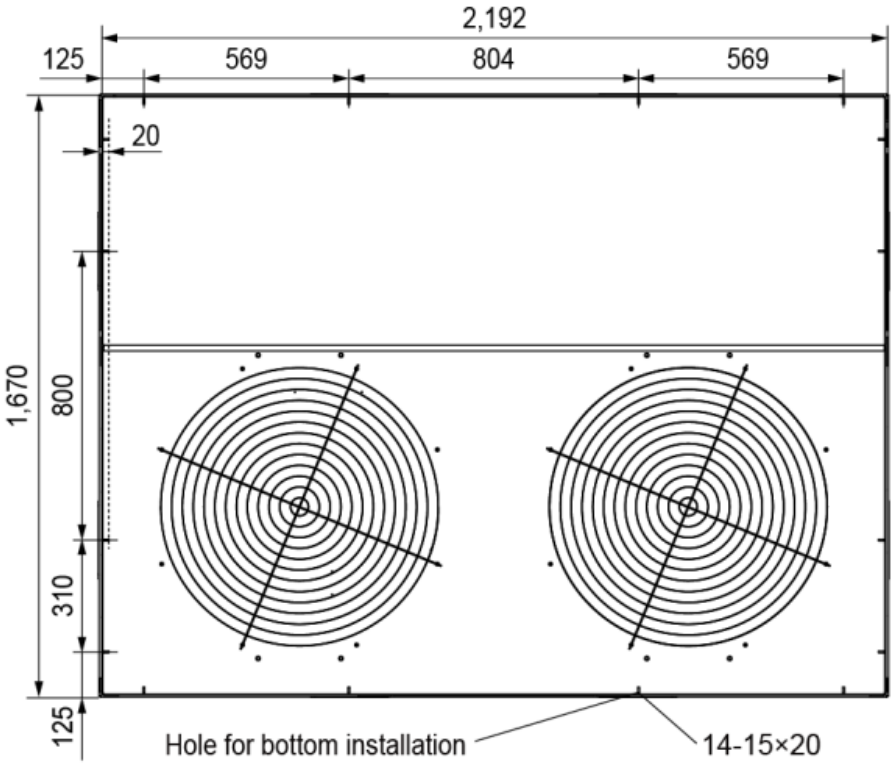
POWERS

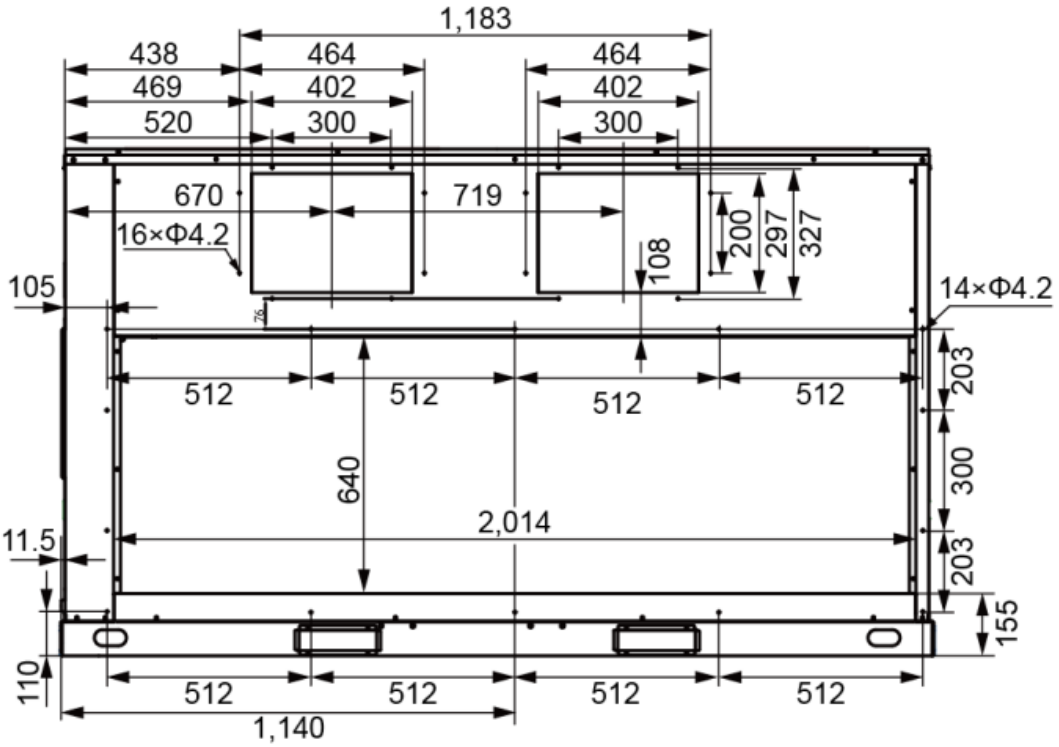
PRC-250HWN1-R(C) :(Unit**: mm)**



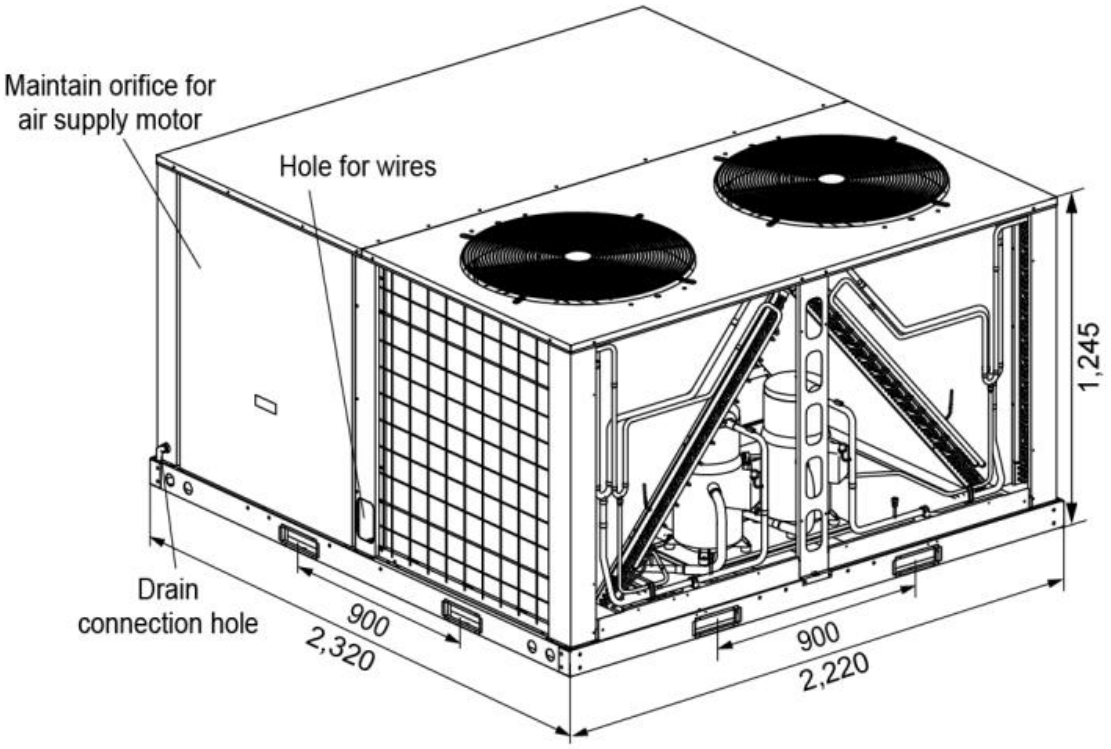


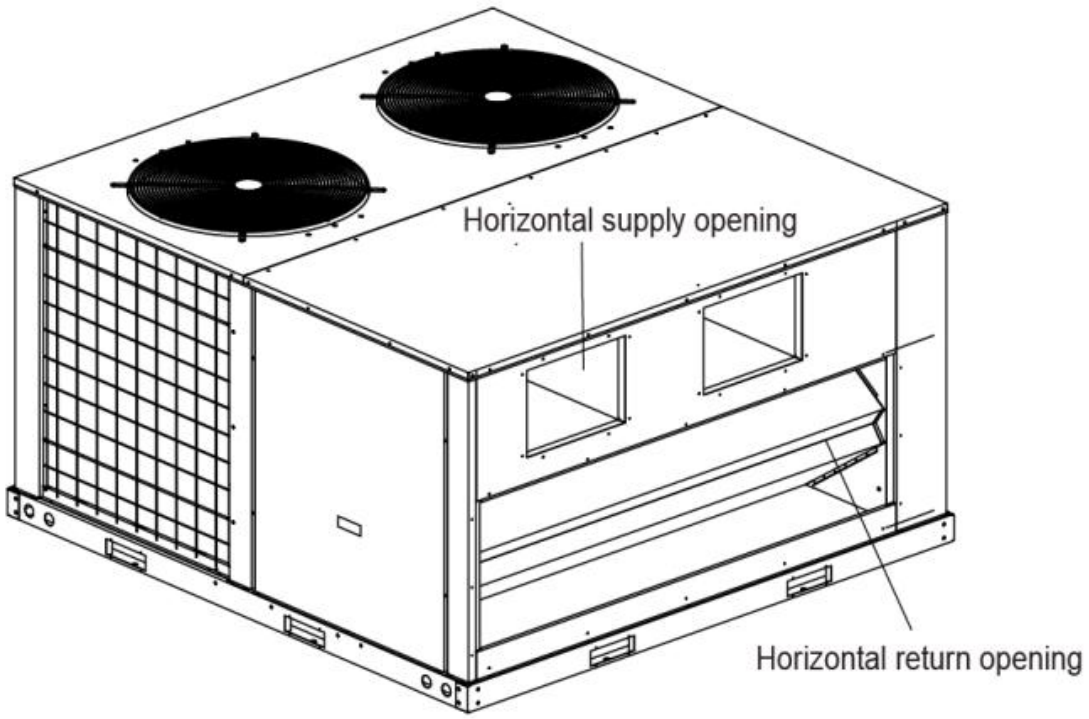
PRC-250HWN1-R(C) :(Unit**: mm)**





PRC-300HWN1-R(C) :(Unit**: mm)**





PRC-300HWN1-R(C) :(Unit**: mm)**

