

ROOFTOP PACKAGED UNIT



ROOFTOP PACKAGED UNIT

TECHNICAL BOOKLET

TECHNICAL DATA

MODEL			08	12	14	17	20	22	
NOMI NAL COOLING CAPACITY			kW	8.9	11.6	13.5	17.7	19.8	23.2
NOMINAL HEATING CAPACITY			kW	9.89	12.76	14.85	19.47	21.78	25.52
RATED TOTAL POWER CONSUMPTION (COOLING)			kW	3.91	4.32	5.12	6.50	7.31	8.49
RATED TOTAL POWER CONSUMPTION (HEATING)			kW	3.72	4.08	4.87	6.08	6.60	8.13
RATED RUNNING CURRENT (COOLING)			Amps	6.5	7.2	8.1	9.8	12.2	13.6
RATED RUNNING CURRENT (HEATING)			Amps	6.1	6.7	7.5	9.1	11.5	12.5
EER (COOLING) / COP (HEATING)			kW/kW	2.53 / 2.92	2.68 / 3.13	2.63 / 3.05	2.72 / 3.20	2.71 / 3.30	2.73 / 3.14
MAXIMUM STARTING CURRENT			Amps	42.0	48.0	55.0	66.0	47.5	54.5
POWER SUPPLY			V/Ph/Hz	380V/3Ph/50Hz					
CAPACITY STEPS			%	0、100%				0、50、100%	
EVAPORATOR SECTION	MOTOR	POWER INPUT	kW	0.55	0.55	0.55	0.76	0.93	0.93
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz					
	FAN	FAN TYPE		Centrifugal fan					
		DRIVE TYPE (DIRECT / BELT)		Direct Drive					
		FAN SPEED	RPM	1440/1245/1390	1430/1400/1360			1380	
		AIR FLOW	L/S	500/400/320	590/480/370	700/550/440	810	1000	1180
			CMH	1800/1440/1152	2124/1728/1332	2520/1980/1584	2916	3600	4248
		EXTERNAL STATIC PRESSURE	Pa	160.0	150.0	180.0	180.0	170.0	150.0
	COIL	FIN TYPE		Aluminum Fins					
		ROWS / FIN PER INCH		3/12.7	4/12.7				
		FACE AREA	m ² /ft ²	0.28/3.013	0.28/3.013	0.28/3.013	0.46/4.95	0.51/5.488	0.6/6.456
		TUBE MATERIAL		Copper Tubes					
CONDENSER SECTION	MOTOR	POWER INPUT	kW	0.16	0.16	0.33	0.38	0.38	0.48
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz					
	FAN	FAN TYPE		Axial type					
		QUANTITY		1	1	1	1	1	1
		FAN SPEED	RPM	695.0	695.0	965.0	965.0	710.0	710.0
		AIR FLOW	L/S	1,100.0	1,050.0	1,530.0	1,950.0	2,400.0	2,400.0
			CMH	3,961	3,781	5,509	7,021	8,641	8,641
	COIL	FIN TYPE		Aluminum Blue Fins					
		ROWS / FIN PER INCH		2/15.88	3/12.7	3/14.0	2/15.88	3/14.0	3/15.88
		FACE AREA	m ² /ft ²	0.825/8.877	0.825/8.877	0.825/8.877	1.125/12.105	1.125/12.105	1.125/12.105
		TUBE MATERIAL		Copper Tubes					
	COMP	TYPE		Hermetic scroll compressor					
		BRAND		Sanyo	Sanyo	Sanyo	Sanyo	Sanyo	Sanyo
		QUANTITY		1	1	1	1	2	2
		POWER INPUT	kW	3.20	3.61	4.24	5.35	2x3.0	2x3.52
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz					
		ANCILLIARIES		Crank case heater					
		REFRIGERANT TYPE		R410a (FACTORY CHARGED)					
CHARGE PER CIRCUIT		Kg	3.0	3.6	4.2	5.8	6.2	7.3	
REFRIGERANT CONTROL		CAPILLARY				Thermal Expansion Valve control			
QTY OF CIRCUITS		1	1	1	1	1	1		
UNIT DIMENSIONS	LENGTH	mm	1280	1280	1280	1660	1780	1780	
	WIDTH	mm	1040	1040	1040	1040	1390	1390	
	HEIGHT	mm	895	895	895	1045	1045	1045	
	NET WEIGHT	kg	240	240	243	360	402	420	
CASING	MATERIAL - CASING / BASE		High Grade Sheet Steel casing and frame						
	EXTERNAL FINISHING		Weather—proof, polyester epoxy powder electrostatic paint oven—baked finishing						
	COLOUR		White, Code PCTC70105						
	INSULATION		Wave acoustic insulation 15mm for compressor section. Thermal insulation 10mm for fan section						
CONTROL	ROOM TEMPERATURE		Easy operation Line controller						
	OPERATION		Unit mounted Microprocessor Controller						
SOUND PRESSURE LEVELS		db(A)	67	67	68	71.7	72.6	72.6	
AIR FILTER	TYPE		Coarse efficiency Nylon filter						
	SIZE (No.-LxWxH)	mm	1-790x340x8	1-790x340x8	1-790x340x8	1-788x276x8	1-831x420x8	1-831x420x8	
CONDENSATE DRAIN CONNECTION		in	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
PROTECTION DEVICES			Compressor - external overload protection, Phase protection Anti-cycle timers						
			HP/LP Switches						

* Performance values refer to the following conditions:

Cooling: room air temperature 27.0°C DB RH 50%, ambient air temperature 35°C;

Heating: room air temperature 21.0°C DB, ambient air temperature 7°C DB / 6°C WB

** Noise level measured by adopting average value in the noise lab with background noise of 25 dB(A), at a distance of 1.5m high fan speed.

TECHNICAL DATA

MODEL			25	28	30	32	35	42	
NOMI NAL COOLING CAPACITY			kW	25.2	27	30.2	32.4	35.6	41.6
NOMINAL HEATING CAPACITY			kW	27.3	29.7	32.4	34.6	38	44.6
RATED TOTAL POWER CONSUMPTION (COOLING)			kW	9.71	10.31	11.16	11.30	12.74	14.70
RATED TOTAL POWER CONSUMPTION (HEATING)			kW	9.12	9.79	10.32	10.55	11.60	13.14
RATED RUNNING CURRENT (COOLING)			Amps	15.1	17.0	18.5	19.6	23.1	27.9
RATED RUNNING CURRENT (HEATING)			Amps	14.0	15.6	17.2	17.8	21.6	26.1
EER (COOLING) / COP (HEATING)			kW/kW	2.82/2.99	2.62/3.03	2.71/3.14	2.87/3.28	2.79/3.28	2.83/3.39
RATED RUNNING CURRENT (COOLING)			Amps	15.1	17.0	18.5	19.6	23.1	27.9
MAXIMUM STARTING CURRENT			Amps	61.5	62.5	62.9	59.9	75.3	87.9
POWER SUPPLY			V/Ph/Hz	380V/3Ph/50Hz					
CAPACITY STEPS			%	0,46,54,100	0,50,100	0,46,54,100	0,50,100	0,50,100	0,37,63,100
EVAPORATOR SECTION	MOTOR	POWER INPUT	kW	1.22	1.22	1.5	1.5	2.2	2.2
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz					
	FAN	FAN TYPE	Centrifugal fan						
		DRIVE TYPE (DIRECT / BELT)	Belt Drive						
		FAN SPEED	RPM	1320	1320	1400	1120	940	940
		AIR FLOW	L/S	1250	1500	1580	1750	1890	2200
			CMH	4500	5400	5688	6300	6804	7920
		EXTERNAL STATIC PRESSURE	Pa	255	235	305	290	270	250
	COIL	FIN TYPE	Aluminum Fins						
		ROWS / FIN PER INCH	4.0/ 12.7						3.0/ 12.7
FACE AREA		m²/ft²	0.6/6.456	0.607/6.532	0.633/6.811	0.732/7.877	0.952/10.244	0.952/10.244	
TUBE MATERIAL		Copper Tubes							
CONDENSER SECTION	MOTOR	POWER INPUT	kW	0.61	0.61	0.80	0.80	2x0.37	2x0.45
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz					
	FAN	FAN TYPE	Axial type						
		QUANTITY		1	1	1	1	2	2
		FAN SPEED	RPM	920	920	710	940	950	940
		AIR FLOW	L/S	2620	2620	3120	3420	2x2083	2x2444
			CMH	9434	9434	11234	12314	2x7500	2x8800
	COIL	FIN TYPE	Aluminum Blue Fins						
		ROWS / FIN PER INCH		3/15.88	3/15.88	3/14.0	3/15.88	3/14.0	3/12.7
		FACE AREA	m²/ft²	1.44/15.50	1.44/15.50	1.8/19.37	1.8/19.37	1.98/21.305	2.47/26.577
		TUBE MATERIAL	Copper Tubes						
	COMP.	TYPE	Hermetic scroll compressor						
		BRAND		Sanyo	Sanyo	Sanyo	Sanyo	Sanyo	Sanyo
		QUANTITY		2	2	2	2	2	2
		POWER INPUT	kW	3.3+3.8	2x4.24	4.06+4.8	2x4.5	2x4.9	4.2+7.4
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz					
		ANCILLIARIES	Crank case heater						
		REFRIGERANT TYPE	R410a (FACTORY CHARGED)						
	CHARGE PER CIRCUIT	Kg	8.1	8.4	9.8	10.5	12.0	5+9.2	
	REFRIGERANT CONTROL	Thermal Expansion Valve control							
	QTY OF CIRCUITS		1.0	1	1	1	2	2	
UNIT DIMENSION	LENGTH	mm	1940	1940	2240	2240	2540	2540	
	WIDTH	mm	1390	1390	1390	1390	1860	1860	
	HEIGHT	mm	1045	1045	1045	1045	1045	1195	
	NET WEIGHT	kg	461	461	503	505	650	725	
CASING	MATERIAL - CASING / BASE		High Grade Sheet Steel casing and frame						
	EXTERNAL FINISHING		Weather – proof, polyester epoxy powder electrostatic paint oven – baked finishing						
	COLOUR		White, Code PCTC70105						
	INSULATION		Wave acoustic insulation 15mm for compressor section. Thermal insulation 10mm for fan section						
CONTROL	ROOM TEMPERATURE		Easy operation Line controller						
	OPERATION		Unit mounted Microprocessor Controller						
SOUND PRESSURE LEVELS			dB(A)	70.0	70.0	72.0	72.0	72.0	72.0
AIR FILTER	TYPE	Coarse efficiency Nylon filter							
	SIZE (No.-LxWxH)	mm	2-502x395x8	2-502x395x8	772x502x8	2-502x395x8	2-592x395x8	2-592x470x8	
CONDENSATE DRAIN CONNECTION			in	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
PROTECTION DEVICES				Compressor - external overload protection, Phase protection Anti-cycle timers					
				HP/ LP Switches					

* Performance values refer to the following conditions:

Cooling: room air temperature 27.0°C DB RH 50%, ambient air temperature 35°C;

Heating: room air temperature 21.0°C DB, ambient air temperature 7°C DB / 6°C WB

** Noise level measured by adopting average value in the noise lab with background noise of 25 dB(A), at a distance of 1.5m high fan speed.

TECHNICAL DATA

MODEL				48	52	63	72	90	105
NOMI NAL COOLING CAPACITY		kW	47.2	53.2	63.3	71.4	87.2	103.1	
NOMINAL HEATING CAPACITY		kW	50.2	56.4	67	75.6	93.3	109.5	
RATED TOTAL POWER CONSUMPTION (COOLING)		kW	16.7	18.70	22.50	26.30	31.40	38.30	
RATED TOTAL POWER CONSUMPTION (HEATING)		kW	16.04	18.13	21.07	25.55	29.83	36.78	
RATED RUNNING CURRENT (COOLING)		Amps	30.9	33.7	39.0	48.3	55.6	69.7	
RATED RUNNING CURRENT (HEATING)		Amps	28.7	31.3	36.5	44.9	52.7	66.6	
EER (COOLING) / COP (HEATING)		kW/kW	2.83/3.13	2.84/3.11	2.81/3.18	2.71/2.96	2.78/3.13	2.69/2.98	
MAXIMUM STARTING CURRENT		Amps	103.9	108	111.4	114.2	154.1	197.7	
POWER SUPPLY		V/Ph/Hz	380V/3Ph/50Hz						
CAPACITY STEPS		%	0,32,68,100	0,40,60,100	0,50,100	0,50,100	0,50,100	0,50,100	
EVAPORATOR SECTION	MOTOR	POWER INPUT	kW	3	3	3	4	4	5.5
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz					
	FAN	FAN TYPE	Centrifugal fan						
		DRIVE TYPE (DIRECT / BELT)	Belt Drive						
		FAN SPEED	RPM	1000	750	750	850	850	900
		AIR FLOW	L/S	2600	2900	3520	4000	4600	5400
			CMH	9360	10440	12672	14400	16560	19440
		EXTERNAL STATIC PRESSURE	Pa	290	280	275	380	345	390
	COIL	FIN TYPE	Aluminum Fins						
		ROWS / FIN PER INCH	4.0/ 12.7						
		FACE AREA	m ² /ft ²	1.08/11.62	1.17412.632	1.41/15.115	1.7/18.292	1.95/20.982	2.21/23.780
		TUBE MATERIAL	Copper Tubes						
CONDENSER SECTION	MOTOR	POWER INPUT	kW	2x0.55	2x0.55	2x0.75	2x1.1	2x1.5	2x1.5
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz					
	FAN	FAN TYPE	Axial type						
		QUANTITY		2	2	2	2	2	2
		FAN SPEED	RPM	940	920	720	725	720	720
		AIR FLOW	L/S	2x2611	2x2975	2x3420	2x4166	2x5555	2x5555
			CMH	2x9400	2x10710	2x12310	2x15000	2x20000	2x20000
	COIL	FIN TYPE	Aluminum Blue Fins						
		ROWS / FIN PER INCH		3/ 15.88	3/14.0	3/12.7	3/12.7	3/14.0	3/12.7
		FACE AREA	m ² /ft ²	2.47/26.577	2.984/32.108	3.77/40.565	4.68/50.357	4.68/50.357	6.44/69.295
		TUBE MATERIAL	Copper Tubes						
	COMP	TYPE	Hermetic scroll compressor						
		BRAND		Sanyo	Sanyo	Sanyo	Sanyo	Sanyo	Sanyo
		QUANTITY		2	2	2	2	4	4
		POWER INPUT	kW	4.1+8.5	4.1+10.5	2x9.5	2x10.5	4x7.04	4x7.1
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz					
ANCILLIARIES		Crank case heater							
REFRIGERANT TYPE		R410a (FACTORY CHARGED)							
REFRIGERANT CONTROL		Thermal Expansion Valve control							
QTY OF CIRCUITS			2	2	2	2	2	2	
UNIT DIMENSIONS	LENGTH	mm	2540	2490	2490	2840	2840	3410	
	WIDTH	mm	1860	2050	2210	2210	2210	2210	
	HEIGHT	mm	1195	1390	1490	1580	1665	1810	
	NET WEIGHT	kg	801	884	890	980	1160	1450	
CASING	MATERIAL - CASING / BASE		High Grade Sheet Steel casing and frame						
	EXTERNAL FINISHING		Weather—proof, polyester epoxy powder electrostatic paint oven—baked finishing						
	COLOUR		White, Code PCTC70105						
INSULATION			Wave acoustic insulation 15mm for compressor section. Thermal insulation 10mm for fan section						
CONTROL	ROOM TEMPERATURE		Easy operation Line controller						
	OPERATION		Unit mounted Microprocessor Controller						
SOUND PRESSURE LEVELS		db(A)	75	73	73	75	75	75	
AIR FILTER	TYPE		Coarse efficiency Nylon filter						
	SIZE (No.-LxWxH)	mm	2-592x470x8	2-628x541x8	2-757x591x8	3-761x391x8	3-761x391x8	2-756x646x8	
CONDENSATE DRAIN CONNECTION		in	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
PROTECTION DEVICES			Compressor - external overload protection, Phase protection Anti-cycle timers						
			HP/ LP Switches						

* Performance values refer to the following conditions:

Cooling: room air temperature 27.0°C DB RH 50%, ambient air temperature 35°C;

Heating: room air temperature 21.0°C DB, ambient air temperature 7°C DB / 6°C WB

** Noise level measured by adopting average value in the noise lab with background noise of 25 dB(A), at a distance of 1.5m high fan speed.

TECHNICAL DATA

MODEL			120	130	150	170	190	
NOMI NAL COOLING CAPACITY		kW	118.8	131.2	153.4	168.6	188.5	
NOMINAL HEATING CAPACITY		kW	126.8	141.2	164.3	182	202	
RATED TOTAL POWER CONSUMPTION (COOLING)		kW	46.10	49.70	56.70	65.40	75.48	
RATED TOTAL POWER CONSUMPTION (HEATING)		kW	42.90	45.70	50.70	59.28	69.40	
RATED RUNNING CURRENT (COOLING)		Amps	86.5	90.9	105.7	116.0	142.7	
RATED RUNNING CURRENT (HEATING)		Amps	82.0	86.2	100.5	111.0	136.1	
EER (COOLING) / COP (HEATING)		kW/kW	2.57/2.96	2.64/3.09	2.65/3.16	2.51/3.0	2.46/2.85	
MAXIMUM STARTING CURRENT		Amps	161	166	183	192	243	
POWER SUPPLY		V/Ph/Hz	380V/3Ph/50Hz					
CAPACITY STEPS		%	0、25、50、75、100					
EVAPORATOR SECTION	MOTOR	POWER INPUT	kW	7.5	7.5	7.5	11	15
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz				
	FAN	FAN TYPE	Centrifugal fan					
		DRIVE TYPE (DIRECT / BELT)		Belt Drive				
		FAN SPEED	RPM	800	800	800	850	740
		AIR FLOW	L/S	6120	6750	8100	9200	10200
			CMH	22032	24300	29160	33120	36720
		EXTERNAL STATIC PRESSURE	Pa	390	385	360	420	430
	COIL	FIN TYPE		Aluminum Fins				
		FACE AREA	m²/ft²	2.52/27.115	2.73/29.375	3.35/36.046	3.77/40.565	4.09/44.009
TUBE MATERIAL		Copper Tubes						
CONDENSER SECTION	MOTOR	POWER INPUT	kW	4x0.75	4x0.75	4x1.5	4x1.5	4x1.5
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz				
	FAN	FAN TYPE		Axial type				
		QUANTITY		4	4	4	4	4
		FAN SPEED	RPM	940	940	725	720	720
		AIR FLOW	L/S	4x3420	4x3420	4x4166	4x5555	4x5555
			CMH	4x12310	4x12310	4x15000	4x20000	4x20000
	COIL	FIN TYPE		Aluminum Blue Fins				
		ROWS / FIN PER INCH		3/14.0	3/14.0	4/12.7	4/14.0	4/14.0
		FACE AREA	m²/ft²	6.44/69.295	7/75.32	7/75.32	7/75.32	7/75.32
		TUBE MATERIAL		Copper Tubes				
	COMPRESSOR	TYPE		Hermetic scroll compressor				
		BRAND		Danfoss	Danfoss	Danfoss	Danfoss	Danfoss
		QUANTITY		4	4	4	4	4
		POWER INPUT	kW	4x8.9	4x9.8	4x10.8	4x12.2	4x13.62
		POWER SUPPLY	V/Ph/Hz	380V/3Ph/50Hz				
		ANCILLIARIES		Crank case heater				
		REFRIGERANT TYPE		R410a (FACTORY CHARGED)				
		CHARGE PER CIRCUIT	Kg	2x22.5	2x24	2x26.5	2x30	2x35
	REFRIGERANT CONTROL		Thermal Expansion Valve control					
QTY OF CIRCUITS		2		2	2	2	2	
UNIT DIMENSIONS	LENGTH	mm	4700	5200	5500	5800	5880	
	WIDTH	mm	2230	2230	2230	2230	2230	
	HEIGHT	mm	1640	1640	1810	1810	2010	
	NET WEIGHT	kg	1910	2010	2280	2460	2530	
CASING	MATERIAL - CASING / BASE		High Grade Sheet Steel casing and frame					
	EXTERNAL FINISHING		Weather – proof, polyester epoxy powder electrostatic paint oven – baked finishing					
	COLOUR		White,Code PCTC70105					
CONTROL	INSULATION		Wave acoustic insulation 15mm for compressor section. Thermal insulation 10mm for fan section					
	ROOM TEMPERATURE		Easy operation Line controller					
	OPERATION		Unit mounted Microprocessor Controller					
SOUND PRESSURE LEVELS		db(A)	80	80	80	82	82.5	
AIR FILTER	TYPE		Coarse efficiency Nylon filter					
	SIZE (No.-LxWxH)	mm	9-581x400x8	9-681x400x8	12-585x397	12-660x397x8	9-495x765	
CONDENSATE DRAIN CONNECTION		in	3/4"	3/4"	3/4"	3/4"	3/4"	
PROTECTION DEVICES			Compressor - external overload protection, Phase protection Anti-cycle timers					
			HP/ LP Switches					

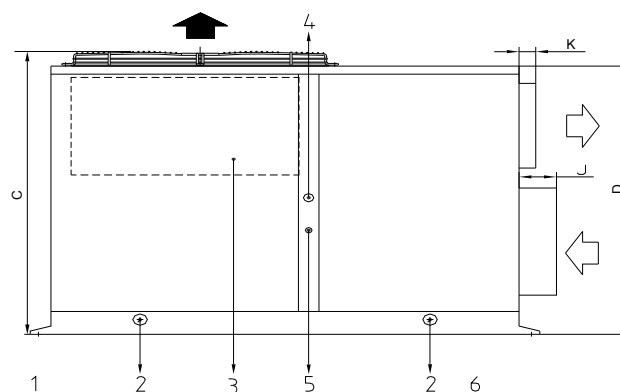
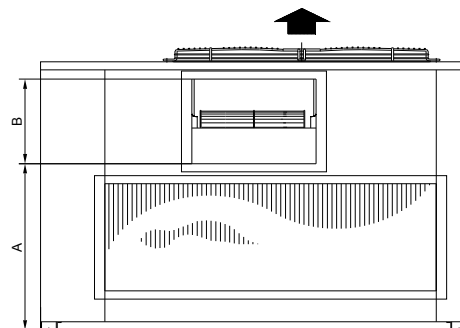
* Performance values refer to the following conditions:

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Heating: room air temperature 21.0°C DB, ambient air temperature 7°C DB / 6°C WB

** Noise level measured by adopting average value in the noise lab with background noise of 25 dB(A), at a distance of 1.5m high fan speed.

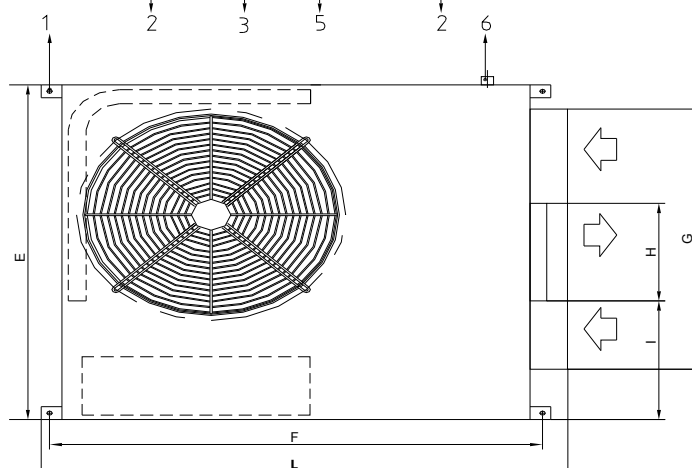
Model 08 12



Code	Dimension	Code	Dimension
A	541.5	G	795
B	260	H	300
C	895	I	439
D	855	J	90
E	1040	K	40
F	1190	L	1280

Note:

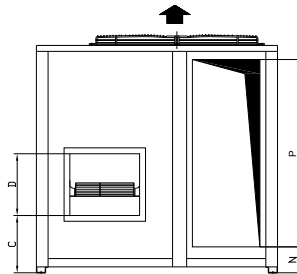
- 1, Unit fixed hole $4 \times \phi 12.5$
- 2, Unit single hole $4 \times \phi 50$
- 3, Unit electric control panel
- 4, Unit power cable entry $\phi 22$
- 5, Unit signal wire hole $\phi 16$
- 6, Unit condensing water discharge pipe $3/4''$



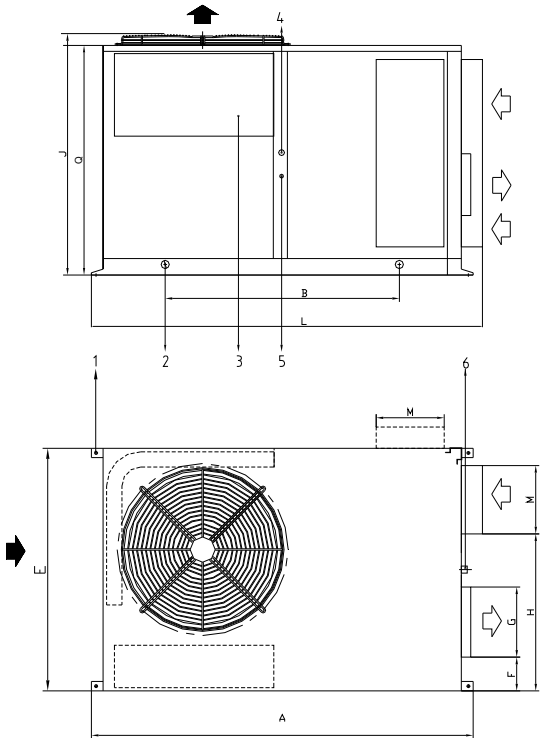
Model 14-32

Note:

- 1, Unit fixed hole 4 × $\phi 12.5$
- 2, Unit single hole 4 × $\phi 50$
- 3, Unit electric control panel
- 4, Unit power cable entry $\phi 22$
- 5, Unit signal wire hole $\phi 16$
- 6, Unit condensing water discharge 3/4"



MODEL	14	17,20	22,25	28	30/32
A	1610	1730	1900	2200	2200
B	1130	1230	1100	1400	1400
C	286	286	345	345	409
D	262	262	268	268	318
E	1040	1390	1390	1390	1390
F	113	190	118	118	118
G	298	298	330	330	330
H	701	825	787	786.5	786.5
M	280	423	495	507	495
L	1670	1780	1940	2240	2240
J	1045	1050	1045	1045	1045
N	91	110	150	120	150
P	795	843	795	780	795
Q	1005	1008	1005	1005	1005

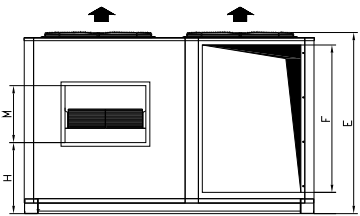


Model 35-105

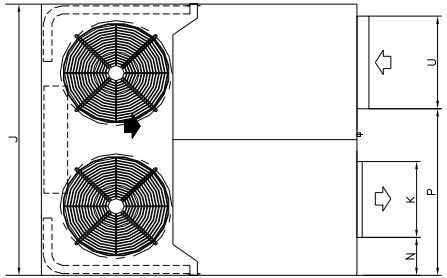
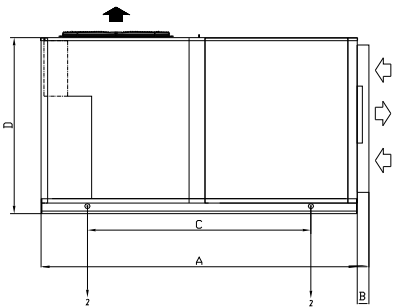
Note:

1, Unit fixed hole 4 × $\phi 12.5$

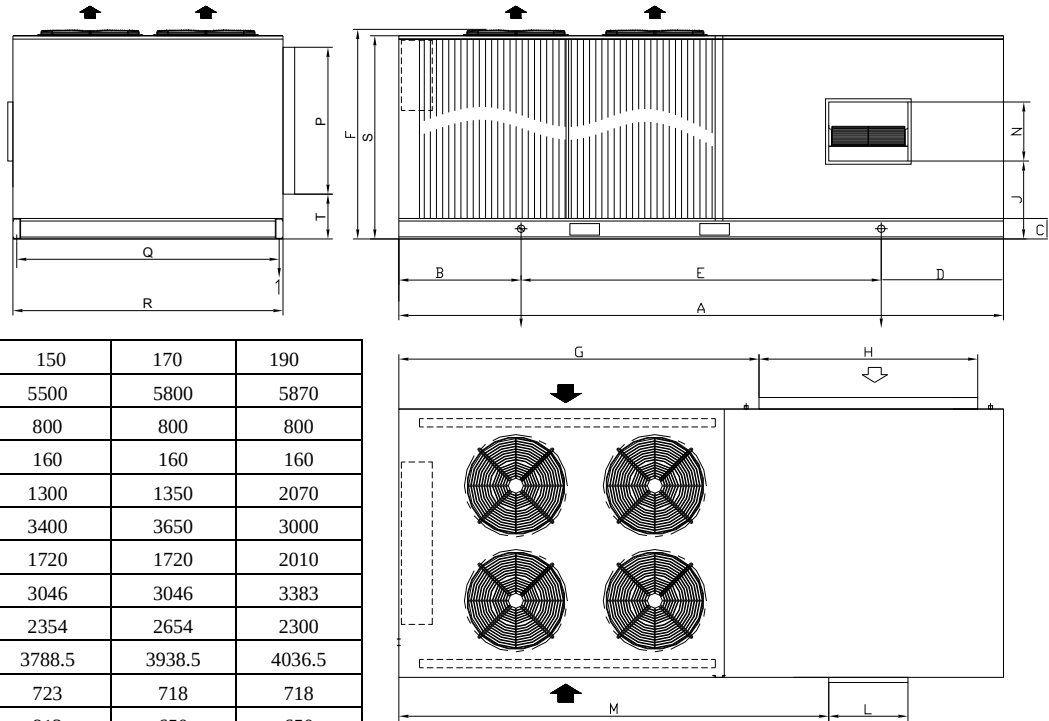
2, Unit single hole 4 × $\phi 50$



MODEL	35	42,48	52	63	72,90	105
A	2540	2540	2490	2495	2750	3410
B	86.5	86.5	90	90	90	92
C	1620	1620	1700	1660	1800	1600
D	1005	1155	1345	1447	1465	1590
E	1045	1195	1390	1490	1550	1810
F	795	945	1095	1195	1182	1300
H	358	358	589	595.5	609	615
M	420	420	462	462	462	462
J	1860	1860	2050	2210	2210	2210
N	199	199	237.5	309	307.5	282.5
K	460	460	615	615	615	615
P	1166.5	1161	1336.5	1353	1331.5	1326.5
U	585	596	630	750	750	750



Model 120-190



Note:
1, Unit fixed hole 4 × ϕ 16.5
2, Unit single hole 4 × ϕ 60

MODEL	120	130	150	170	190
A	4700	5200	5500	5800	5870
B	800	800	800	800	800
C	160	160	160	160	160
D	800	1622	1300	1350	2070
E	3100	2778	3400	3650	3000
F	1590	1640	1720	1720	2010
G	2750	2846	3046	3046	3383
H	1755	2054	2354	2654	2300
M	3288.5	3438.5	3788.5	3938.5	4036.5
L	723	723	723	718	718
J	813	813	813	650	650
N	400	400	400	718	718
P	1214	1214	1214	1214	1500
Q	2000	2000	2000	2000	2040
R	2230	2230	2230	2230	2230
S	1590	1590	1590	1590	1790
T	215	215	215	215	215