

Package-Type Air Conditioner

Standard

Down-Blasting

Commercial Dehumidifier



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■ Features

1 LED micro-computer touch control and room temperature indication

- Adopting LED micro-computer temperature control owns sensitive control and can indicate and adjust temperature.
- Own low temperature anti-frozen protection function to avoid freezing on the evaporator.
- Three minutes protection design and abnormal protection indication can prolong compressor life.
- The dual systems adopt two stages of micro-computer temperature control that can adjust according to real loading to save energy.
- Adopt dual systems that have independent refrigerant circuit. They own the characteristics that compressor running can select start sequence to average compressor running time and prolong compressor life.

2 High efficiency compressor

Using the most advanced high efficiency scroll type compressor can operate, suck, compress, and exhaust in step to achieve low noise, low vibration, zero breakdown and energy saving effect. It can also make the system strong and cold and energy-saving.



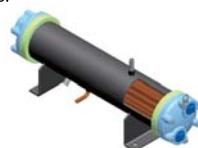
3 Typical fan design

Adopting the most progressive ringless fan rotor and streamline air discharge grill can get the high-efficiency air volume with static pressure. And the air will not produce the vortex phenomenon to minimize the friction sound of airflow.



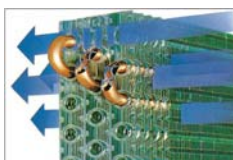
4 Anti-corrosive condenser design

Steel shell is treated by anti-corrosive coating and copper tube adopted by high efficiency Cu alloy possesses high anti-corrosive characteristics.



5 Great cooling capacity

The cooling capacity is great by using the new multi-fin and inner groove tube of the high efficiency heat exchanger.



6 Excellent anti-dust and dehumidifying effect

High quality filter can remove dust completely and protect health as well as maintain easily. The dehumidifying effect is appropriate for island type climate and good for health.



■ Specifications

Model		TC-3NS	TC-5NS	TC-8NS	TC-10NS	TC-15NS	TC-20NS
Power source		3ø 380V 50Hz					
Cooling capacity	(Btu/hr)	36,000	60,000	90,000	120,000	180,000	240,000
	(kW)	10.5	17.6	26.4	35.2	52.7	70.3
Condenser water (L/min)		39	60	100	128	190	257
Running current (A)		4.6	7.5	11.2	16.2	23.7	31.9
Total input (kW)		2.39	3.58	5.36	7.76	11.38	15.32
EER	(Btu/hr . W)	15.06	16.76	16.79	15.46	15.82	15.67
COP	(w/w)	4.39	4.91	4.92	4.53	4.63	4.59
COMP.	Type	Hermetic Compressor					
	Quantity	1			2		
Capacity step (%)		100,0			100,50,0		
Evaporator		Cross fin coil					
Condenser		Double pipe condenser	Shell & tube type				
Fan type		Dual suction multi-blades					
Output (kW)		0.105	0.4	0.75	0.75	2.2	3.7
Air volume	(CFM)	988	1,412	2,401	3,178	4,767	6,356
	(CMM)	28	40	68	90	135	180
External static pressure	(pa)	0	0	0	0	0	0
Plenum chamber		Accessory				Optional	
Electrical heater		Optional					
Humidifier		Optional					
Thermostat		LED display micon controller					
Starting type		Direct			Sequence direct		
Safety devices		Coil anti-frozen protection Compressor thermal protector, High & low pressure switch Compressor 3 minutes protection Reversal phase protection					
Condenser water pipe		PT 1 B	PT 1 1/4B	PT 1 1/2B	PT 1 1/2B	PT 2B	PT 2B
Draining pipe		PS 1B	PS 1B	PS 1B	PS 1B	PS 1B	PS 1B
Refrigerant & Control		R-410A / Capillary tube					
DIM.	Height (mm)	1,700	1,870	1,870	1,870	1,870+320(FA-15N)	1,870+320(FA-20N)
	Width (mm)	750	950	1,470	1,470	1,470	1,810
	Depth (mm)	380	510	510	510	795	795
Weight (ka)		120	215	313	345	480+18(FA-15N)	576+22(FA-20N)

Notes:

1. Cooling capacity is based on the condition at indoor air temperature 27°CDB/19.0°C WB; while condenser inlet water temperature is at 30°C and outlet water temperature is at 35°C.
2. 1kW=860 kcal/hr; 1kcal/hr=3.968 Btu/hr.

Water-Cooled Package



■ Specifications

Model		TC-5NSF	TC-8NSF	TC-10NSF	TC-15NSF	TC-20NSF
Power source		3ø 380V 50Hz				
Cooling capacity	(Btu/hr)	60,000	90,000	120,000	180,000	240,000
	(kW)	17.6	26.4	35.2	52.7	70.3
Condenser water (L/min)		60	100	128	190	257
Running current (A)		7.6	11.6	16.5	24.4	34.1
Total input (kW)		3.63	5.56	7.95	11.70	16.36
EER	(Btu/hr . W)	16.53	16.19	15.09	15.38	14.67
COP	(w/w)	4.84	4.74	4.42	4.51	4.30
COMP.	Type	Hermetic Compressor				
	Quantity	1		2		
Capacity step (%)		100,0		100,50,0		
Evaporator		Cross fin coil				
Condenser		Shell & tube type				
Fan type		Dual suction multi-blades				
Output (kW)		0.4	0.75	0.75	2.2	3.7
Air volume	(CFM)	1,412	2,401	3,178	4,767	6,356
	(CMM)	40	68	90	135	180
External static pressure (pa)		50	50	50	80	80
Plenum chamber		-				
Electrical heater		Optional				
Humidifier		Optional				
Thermostat		LED display micon controller				
Starting type		Direct		Sequence direct		
Safety devices		Coil anti-frozen protection Compressor thermal protector, High & low pressure switch Compressor 3 minutes protection Reversal phase protection				
Condenser water pipe		PT 1 1/4B	PT 1 1/2B	PT 1 1/2B	PT 2B	PT 2B
Draining pipe		PS 1B	PS 1B	PS 1B	PS 1B	PS 1B
Refrigerant & Control		R-410A / Capillary tube				
DIM.	Height (mm)	1,870	1,870	1,870	1,870	1,870
	Width (mm)	950	1,470	1,470	1,470	1,810
	Depth (mm)	510	510	510	795	795
Weight	(ka)	215	313	345	480	576

Notes:

1. Cooling capacity is based on the condition at indoor air temperature 27°CDB/19.0°C WB; while condenser inlet water temperature is at 30°C and outlet water temperature is at 35°C.

2. 1kW=860 kcal/hr; 1kcal/hr=3.968 Btu/hr.

■ Specifications

Model	TC-30NSF	TC-40NSF	TC-50NSF
Power source	3ø 380V 50Hz		
Cooling capacity	(Btu/hr)	360,000	480,000
	(kW)	105.5	140.7
Condenser water	(L/min)	380	515
Running current	(A)	53.1	73.0
Total input	(kW)	25.5	35.06
EER	(Btu/hr . W)	14.12	13.69
COP	(w/w)	4.14	4.01
COMP.	Type	Hermetic Compressor	
	Quantity	2	3
Capacity step (%)	100,50,0		100,66,33,0
Evaporator	Cross fin coil		
Condenser	Shell & tube type		
Fan type	Dual suction multi-blades		
Output	(kW)	5.5	7.5
Air volume	(CFM)	9,534	12,712
	(CMM)	270	360
External static pressure	(pa)	200	200
Plenum chamber	-		
Electrical heater	Optional		
Humidifier	Optional		
Thermostat	LED display micon controller		
Starting type	Sequence direct		
Safety devices	Coil anti-frozen protection Compressor thermal protector, High & low pressure switch Compressor 3 minutes protection Reversal phase protection		
Condenser water pipe	PT 2 1/2B	PT 2 1/2B	PT 3B
Draining pipe	PS 1B	PS 1B	PS 1 1/4B
Refrigerant & Control	R-410A / Thermal Expansion Valve		
DIM.	Height (mm)	1,850	1,876
	Width (mm)	1,760	1,960
	Depth (mm)	1,125	1,275
Weight	(kg)	860	1,150

Notes:

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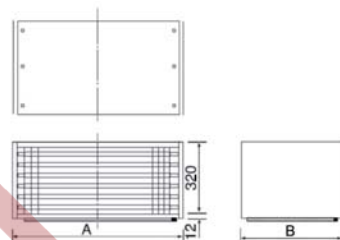
Water-Cooled Package



■ Plenum Chamber (Optional for free blow type)

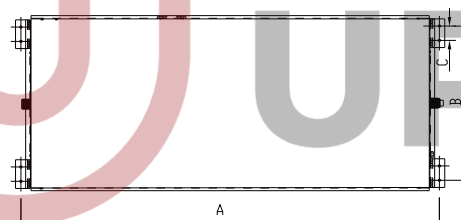
Dimensions (mm)

Model	Dimensions:			Fitting units
	Weight	Width (A)	Depth (B)	
FA-15N	18kg	1470	795	TC-15NS
FA-20N	22kg	1810	795	TC-20NS, TC-20CANS



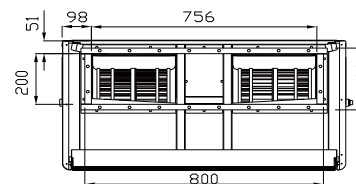
■ Pitches of foundation holes (unit: mm)

Model	A	B	C
TC-5NS(F)	975	430	40
TC-8NS(F), TC-10NS(F)	1495	430	40
TC-15NS(F)	1495	704	40
TC-20NS(F)	1834	704	40
TC-30NSF	1782	963	40
TC-40NSF	1980	1100	40
TC-50NSF	1980	1113	40

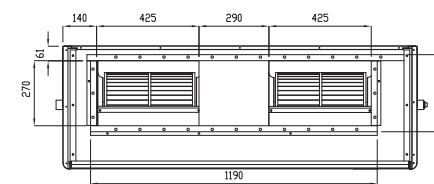


■ Discharging duct connection dimensions (unit: mm)

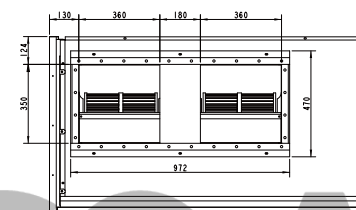
TC-5NSF



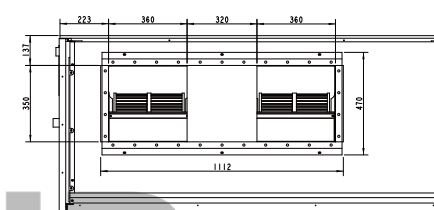
TC-8NSF, TC-10NSF



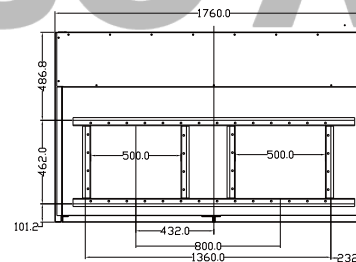
TC-15NSF



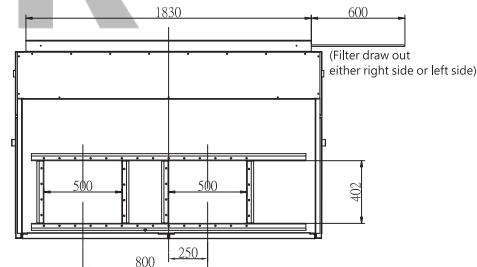
TC-20NSF



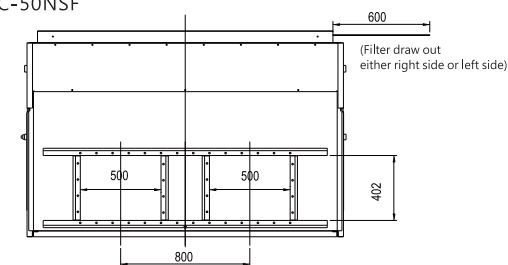
TC-30NSF



TC-40NSF



TC-50NSF



■ Features

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4 Great cooling capacity

The cooling capacity is great by using the new multi-fin and inner groove tube of the high efficiency heat exchanger.



5 Excellent anti-dust and dehumidifying effect

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■ Specifications

Model		Indoor unit		TFV-1252DPN	TFP-5NS	TFP-8NS	TFP-10NS	TFP-15NS	TFP-20NS
		Outdoor unit		RP-5NS	RP-5NS	RP-8NS	RP-10NS	RP-8NSx2	RP-10NSx2
Cooling capacity	(Btu/hr)		47,775	50,000	75,000	100,000	150,000	200,000	
	(kW)		14.0	14.7	22.0	29.3	44.0	58.6	
Running current		(A)	9.2	9.4	14.0	18.8	28.1	37.9	
Power consumption		(kW)	4.40	4.50	6.75	9.01	13.50	18.20	
EER		(Btu/hr-W)	10.86	11.11	11.11	11.10	11.11	10.99	
COP		(W/W)	3.18	3.26	3.26	3.25	3.26	3.22	
Indoor unit (single)	Power source		1ø 220V 50Hz	3ø 380V 50Hz					
	Evaporator		Cross fin coil						
	Fan	Type	Multi-blade						
		Output	(kW)	0.15	0.4	0.75	0.75	2.2	3.7
		Air volume	(CFM)	988/883/812	1,412	2,401	3,178	4,767	6,356
			(CMM)	28/25/23	40	68	90	135	180
	EX. Static pressure (pa)		0	0	0	0	0	0	
	Dim.	Height (mm)	1,900	1870	1,870	1,870	1,870+320(FA-20N)	1,870+320(FA-20N)	
		Width (mm)	600	950	1,470	1,470	1,810	1,810	
		Depth (mm)	445	510	510	510	795	795	
	Weight (kg)		55	135	210	220	300+22(FA-20N)	320+22(FA-20N)	
Outdoor unit	Power Source		3ø 380V 50Hz						
	Condenser		Cross fin coil						
	Comp.	Type	Hermetic Compressor						
		Quantity	1	1	1	1	2	2	
	Fan	Type	Propeller Fan						
		Output x Quantity (W)	80 ×2	80 ×2	355×1	460 ×1	355 ×2	460 ×2	
	Dim.	Height (mm)	1,320	1,320	1,308	1,308	1,308	1,308	
		Width (mm)	930	930	1,685	1,685	1,685	1,685	
		Depth (mm)	370	370	630	630	630	630	
	Weight (kg)		126	126	190	220	190	220	
Power Providing pattern		Outdoor unit	Outdoor unit and indoor unit						
Thermostat		LED display micon controller							
Refrigerant & Control		R-410A / Capillary tube							
Safety devices		Outdoor fan thermal protection , Indoor unit fan motor protection High & low pressure switch, Comp. internal protector, Comp. 3-minute protector, Reverse phase protector							
Piping	Gas side		ø 19.1×1	ø 19.1×1	ø 22.2×1	ø 28.6×1	ø 22.2×2	ø 28.6×2	
	Liquid side		ø 12.7×1	ø 12.7×1	ø 15.9×1	ø 15.9×1	ø 15.9×2	ø 15.9×2	
	Indoor unit draining		PS 1B						

Notes:

- 1.Cooling capacity is based on indoor air temperature 27°CDB / 19°CWB, outdoor air temperature 35°CDB.
- 2.Cooling operation temperature limits: indoor 21~32°CDB, outdoor 21~45°CDB.
- 3.If the cooling requirement is under 20°C, additional design is required to protect the unit. Please have a check with our sales.
- 4.If the piping distance of refrigerant between indoor and outdoor unit is longer than 30m, additional design is required to protect the unit. Please notify our sales in advance.
- 5.Owing to technological advances, the above specifications might be updated without early notice.
- 6.1kW=860kcal/hr, 1kcal/hr=3.968 Btu/hr.

Air-Cooled Package



Specifications

Model		Indoor unit		TFP-5NSF	TFP-8NSF	TFP-10NSF	TFP-15NSF	TFP-20NSF	TFP-30NSF
		Outdoor unit		RP-5NS	RP-8NS	RP-10NS	RP-8NSx2	RP-10NSx2	RS-30NS
Cooling capacity		(Btu/hr)	50,000	75,000	100,000	150,000	200,000	300,000	
		(kW)	14.7	22.0	29.3	44.0	58.6	87.9	
Running current		(A)	9.7	14.4	19.3	28.9	38.7	59.9	
Power consumption		(kW)	4.68	6.90	9.27	13.90	18.60	28.80	
EER		(Btu/hr-W)	10.68	10.87	10.79	10.79	10.75	10.42	
COP		(W/W)	3.13	3.19	3.16	3.16	3.15	3.05	
Indoor unit (single)	Power source		3ø 380V 50Hz						
	Evaporator		Cross fin coil						
	Fan	Type	Multi-blade						
		Output	(kW)	0.4	0.75	0.75	2.2	3.7	5.5
		Air volume	(CFM)	1,412	2,401	3,178	4,767	6,356	9,534
		(CMM)	40	68	90	135	180	270	
	Dim.	EX. Static pressure (pa)	50	50	50	80	80	200	
		Height (mm)	1870	1,870	1,870	1,870	1,870	1,876	
		Width (mm)	950	1,470	1,470	1,810	1,810	1,760	
		Depth (mm)	510	510	510	795	795	1,127	
Weight (kg)		135	210	220	300	320	685		
Outdoor unit	Power Source		3ø 380V 50Hz						
	Condenser		Cross fin coil						
	Comp.	Type	Hermetic Compressor						
		Quantity	1	1	1	2	2	2 (Notes.7)	
	Fan	Type	Propeller Fan						
		Output x Quantity (W)	80 ×2	355×1	460 ×1	355 ×2	460 ×2	790 ×2	
	Dim.	Height (mm)	1,320	1,308	1,308	1,308	1,308	1,417	
		Width (mm)	930	1,685	1,685	1,685	1,685	2,000	
		Depth (mm)	370	630	630	630	630	960	
	Weight (kg)		126	190	220	190	220	340	
Power Providing pattern		Outdoor unit and indoor unit							
Thermostat		LED display micon controller							
Refrigerant & Control		R-410A / Capillary tube						R-410A Thermal Expansion Valve	
Safety devices		Outdoor fan thermal protection , Indoor unit fan motor protection High & low pressure switch, Comp. internal protector, Comp. 3-minute protector, Reverse phase protector							
Piping	Gas side		ø 19.1×1	ø 22.2×1	ø 28.6×1	ø 22.2×2	ø 28.6×2	ø 28.6×2	
	Liquid side		ø 12.7×1	ø 15.9×1	ø 15.9×1	ø 15.9×2	ø 15.9×2	ø 19.1×2	
	Indoor unit draining		PS 1B						

Notes:

- Cooling capacity is based on indoor air temperature 27°CDB / 19°CWB, outdoor air temperature 35°CDB.
- Cooling operation temperature limits: indoor 21~32°CDB, outdoor 21~45°CDB.
- If the cooling requirement is under 20°C, additional design is required to protect the unit. Please have a check with our sales.
- If the piping distance of refrigerant between indoor and outdoor unit is longer than 30m, additional design is required to protect the unit. Please notify our sales in advance.
- Owing to technological advances, the above specifications might be updated without early notice.
- 1kW=860kcal/hr, 1kcal/hr=3.968 Btu/hr.

Specifications

Model	Indoor unit		TFM-52NS	TFM-92NS
	Outdoor unit		RPM-52NS	RPM-92NS
Cooling Capacity	(Btu/hr)		52,800	92,100
	(kW)		15.5	27.0
Running Current	(A)		8.1	16.0
Starting Current	(A)		10.2	20.5
Power consumption	(kW)		4.99	9.28
EER	(Btu/hr-W)		2.67	2.51
COP	(W/W)		3.11	2.91
Indoor unit	Power Source		3ø 380V 50Hz	3ø 380V 50Hz
	Evaporator		Cross fin coil	Cross fin coil
	Fan	Type	Multi-Blade	Multi-Blade
		Output (W)	158	119
		Air volume (CMM)	34	67
	Dim.	EX. Static pressure (pa)	0	0
		Height (mm)	1,870	1,890
		Width (mm)	580	1,200
		Depth (mm)	380	340
	Air Filter		Cleanable Nylon Fiber	Cleanable Nylon Fiber
Output unit	Weight (kg)		54	118
	Power Source		3ø380V 50Hz	3ø380V 50Hz
	Condenser		Cross fin coil	Cross fin coil
	Comp.	Type x Quantity	Hermetic Compressor x 1	Hermetic Compressor x 1
		Input (kW)	4.65	1.315
	Fan	Capacity Control (%)	0,100	0,100
		Type	Propeller Fan	Propeller Fan
	Dim.	Output x Quantity (W)	39+39	210 x2
		Height (mm)	1,050	908
		Width (mm)	950	1,280
		Depth (mm)	340	700
Safety Devices	Weight (kg)		96	185
	Power supply wiring		Outdoor unit	Outdoor unit
	Refrigerant & Control		R-410 / Capillary tube	R-410 / Capillary tube
	Thermostat		LED display micon controller	LED micon controller
	Draining pipe (upper & Lower)		PS 1B	PS 1B
	Safety Devices		Coil anti-frozen protector High & low pressure switch Comp. internal protector Comp. 3-minute protector Reverse phase protector	Coil anti-frozen protection High & low pressure switch Compressor thermal protector Compressor 3-minute protection Indoor unit fan motor protection Fusing plug, Reversal phase protection
	Piping	Gas side	ø19.1x1	ø19.1x1
		Liquid side	ø9.5x1	ø9.5x1

Notes:

- Cooling capacity is based on indoor air temperature 27°CDB / 19°CWB, outdoor air temperature 35°CDB.
- Cooling operation temperature limits: indoor 21~32°CDB, outdoor 21~45°CDB.
- If the cooling requirement is under 20°C, additional design is required to protect the unit. Please have a check with our sales.
- If the piping distance of refrigerant between indoor and outdoor unit is longer than 30m, additional design is required to protect the unit. Please notify our sales in advance.
- Owing to technological advances, the above specifications might be updated without early notice.
- 1kW=860kcal/hr, 1kcal/hr=3.968 Btu/hr.

Air-Cooled Package



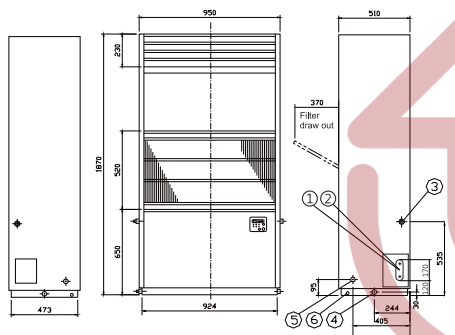
Indoor units dimensions (mm)

Symbols:

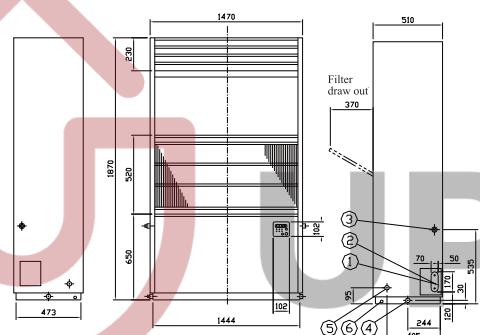
- ①.Liquid side pipe inlet
- ②.Gas side pipe inlet
- ③.Upper draining pipe outlet
- ④.Lower draining pipe outlet
- ⑤.Power line wiring inlet
- ⑥.Grounding terminal bolt



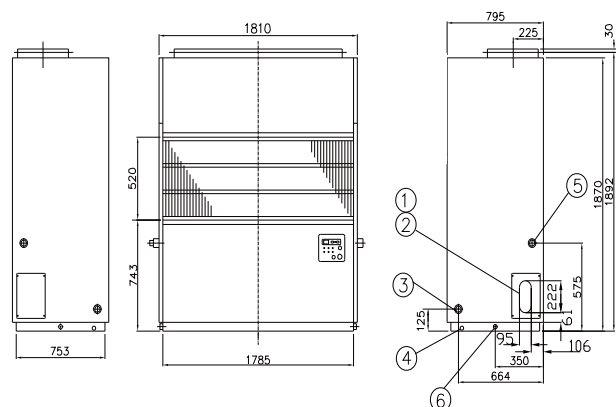
TFP-5NS(F)



TFP-8(10)NS(F)



TFP-15(20)NS(F)



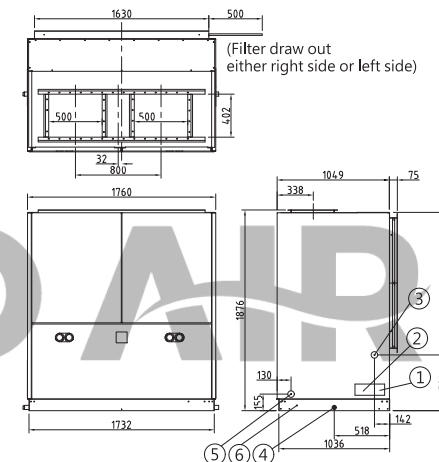
Indoor units dimensions (mm)

Symbols:

- ①.Liquid side pipe inlet
- ②.Gas side pipe inlet
- ③.Upper draining pipe outlet
- ④.Lower draining pipe outlet
- ⑤.Power line wiring inlet
- ⑥.Grounding terminal bolt



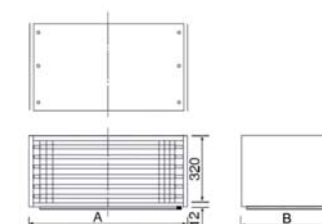
TFP-30NSF



Plenum Chamber (Optional for free blow type)

Dimensions (mm)

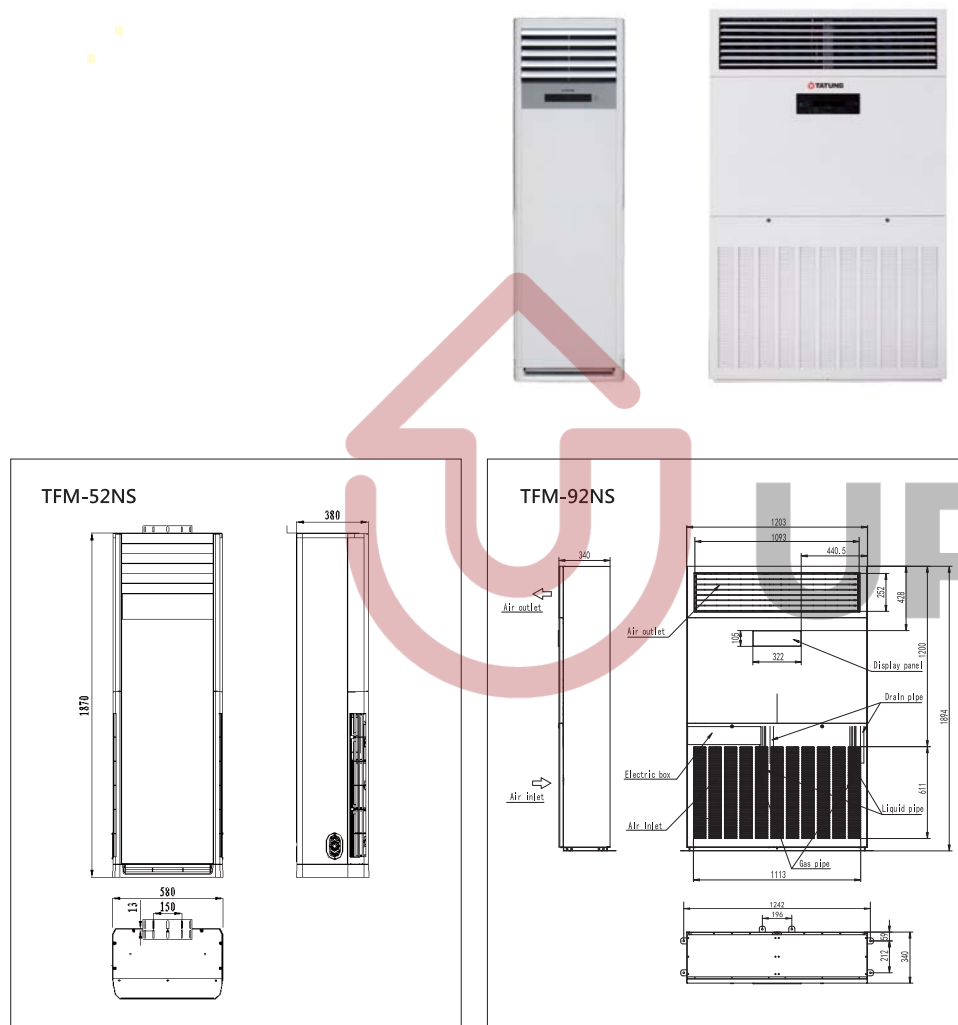
Model	Dimensions:			Fitting units
	Weight	Width (A)	Depth (B)	
FA-20N	22kg	1810	795	TFP-15NS, TFP-20NS, TFP-20CANS



Air-Cooled Package



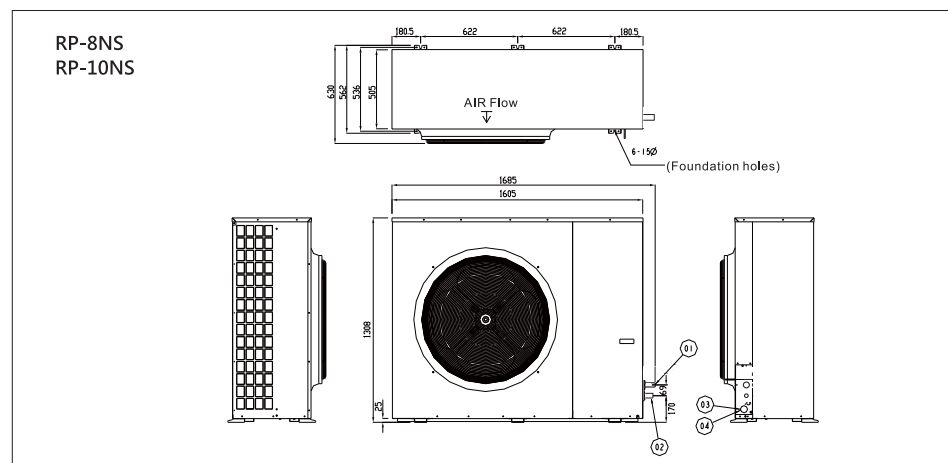
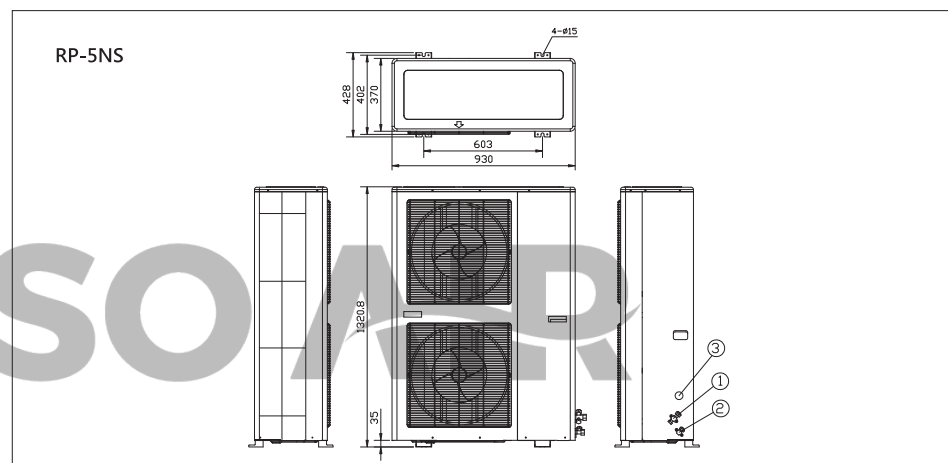
Indoor units dimensions (mm)



Outdoor units dimensions (mm)

Symbols:

- ① Gas side pipe connector
- ② Liquid side pipe connector
- ③ Power line wiring inlet
- ④ Grounding bolt terminal



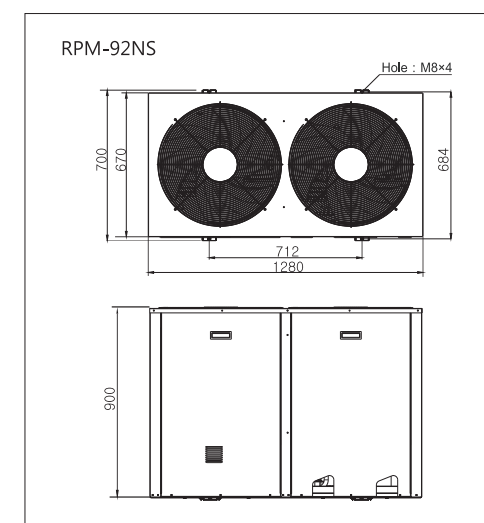
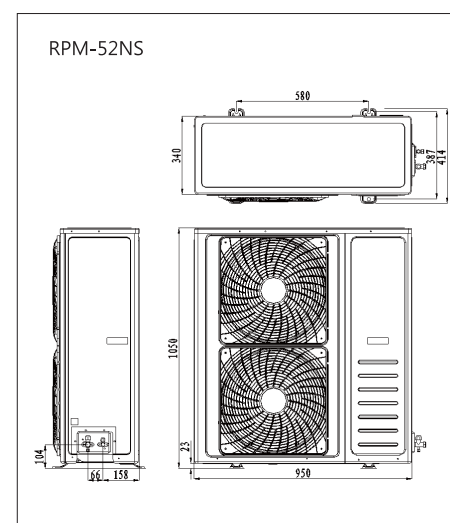
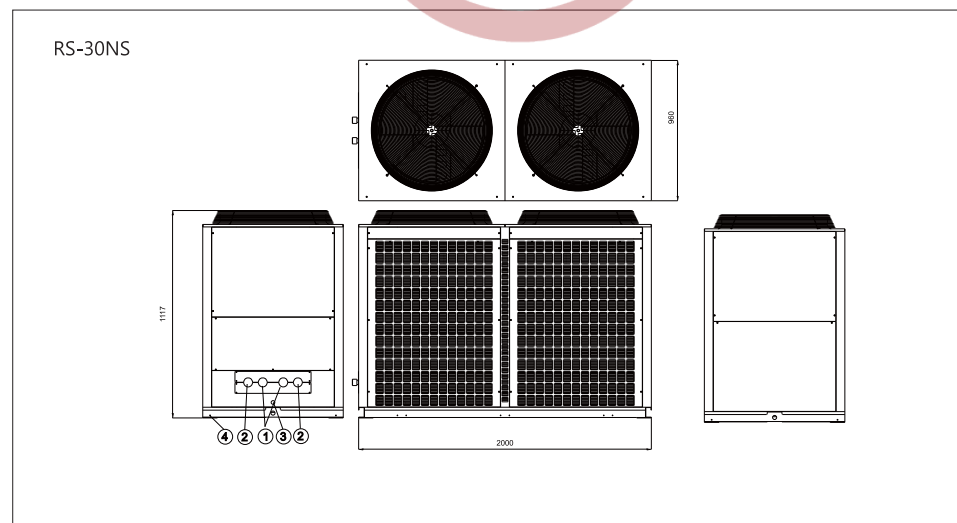
Air-Cooled Package



Outdoor units dimensions (mm)

Symbols:

- ①. Gas side pipe connector
- ②. Liquid side pipe connector
- ③. Power line wiring inlet
- ④. Grounding bolt terminal

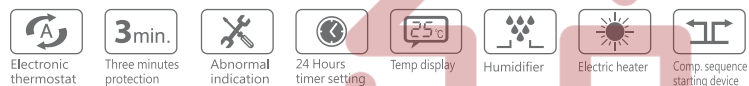


Water-Cooled Down-Blasting Type Package

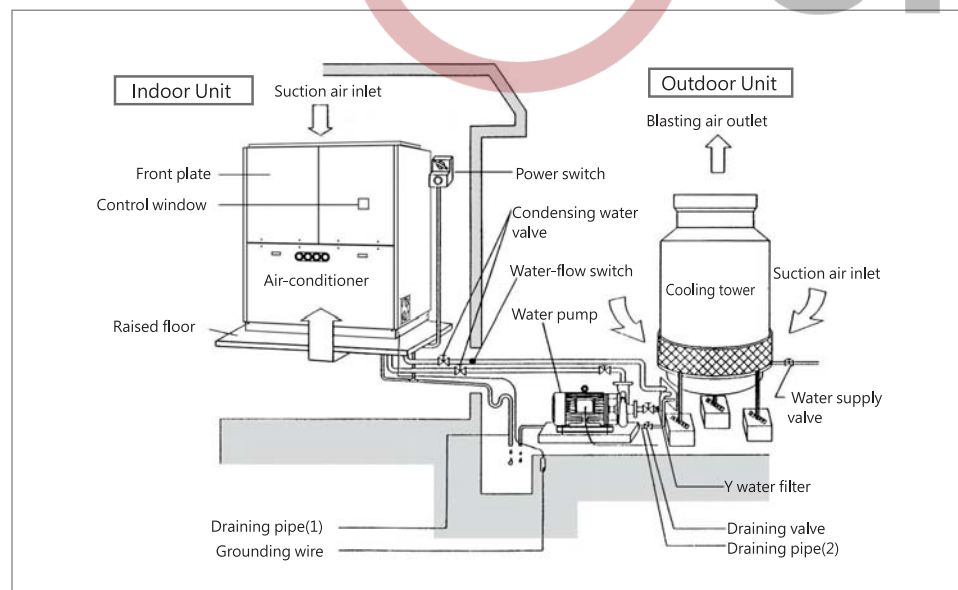


■ Features

- ▶ Designed for raised floor, with high S.H.F. and large air volume flow reat.
- ▶ Draining basins of evaporator and unit base are made of stainless material.
- ▶ Adopt LED-display controller to make operation easy and precise.
- ▶ Anti-frozen protection is set on the evaporator coil to avoid breakdown of system.
- ▶ Twin-compressor design and alternate starting sequence prolong the life of compressor.
- ▶ Air flow velocity passing through the evaporator is less than 2 m/s to avoid water being blown out.
- ▶ Constant temperature and humidity control.



■ Installation Illustration



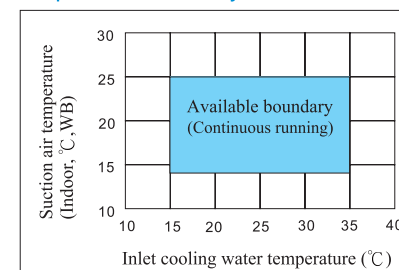
■ Specifications

Model	TCC-5NAF	TCC-8NAF	TCC-10NAF	TCC-15NAF	TCC-20NAF	TCC-30NAF
Power source	3ø 380V 50Hz					
Cooling capacity	(Btu/hr)	60,000	90,000	120,000	180,000	240,000
	(kW)	18.0	30.0	35.2	53.2	70.3
Running current (A)	8.4	13.8	16.2	26.0	36.9	53.5
Power consumption (KW)	4.38	7.17	8.6	13.8	18.2	28.1
EER (Btu/hr. W)	3.53	3.60	3.52	3.32	3.32	3.23
COP (w/w)	4.10	4.18	4.09	3.86	3.86	3.75
Compressor	Type	Hermetic Compressor				
	Quantity	1	2	2	2	2
Fan	Type	Dual Suction Multi-Blades				
	Motor output (kW)	0.75	1.5	2.2	3.7	5.5
	Air volume (CMM)	70	110	140	210	280
	ESP ** (pa)	80	80	80	100	100
Evaporator type	Fin-tube coil type					
Condenser type	Shell and tube					
Refrigerant & Control	R-410A / Thermal expansion valve					
Cooling water flow rate(L/min)	60	100	128	190	257	380
Cooling head lose (mAq)	3.2	3.4	3.5	3.1	3.4	5.0
Controller	LED					
Starting type	Sequence direct					
Safety devices	Coil anti-frozen protection, High & low pressure switch, Compressor thermal protector, Overload switch, 3-minute restarting protection, Fan motor overload switch, Reversal phase protection, Fusing plug					
Air filter	All-Aluminum foil					
Piping	Condenser	PT 1 1/2B	PT 1 1/2B	PT 2B	PT 2 1/2B	PT 2 1/2B
	Drain pipe	PS 1B	PS 1B	PS 1B	PS 1B	PS 1B
Dim.	H x W x D (mm)	1,762x1,320x854	1,911x1,621x942	1,855x1,857x1,200	2,153x2,200x1,367	2,153x2,200x1,367
Weight	(kg)	330	410	480	560	680

Notes :

1. Cooling Capacity is based on indoor air temperature 27°CDB /19°CWB, entering condenser water temperature 30°C and leaving condenser water temperature 35°C.
 2. Condenser water flow rate is based on entering condenser water temperature 32°C and leaving condenser water temperature 37°C.
 3. Special requirements are also available, please notify in advance.
 4. 1KW=860 kcal/hr ; 1kca/hr=3.968Btu/hr.
 5. Sensible Heat Factor(S.H.F)=0.9
 6. Owing to technological advances, the above specifications might be updated without early notice.
- * * ESP means external static pressure.

■ Operation boundary



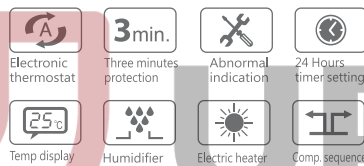
Air-Cooled Down-Blasting Type Package



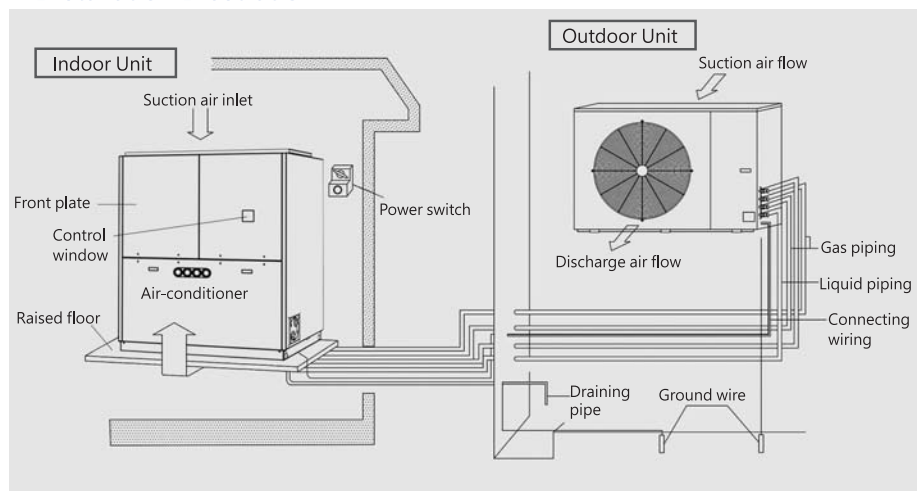
■ Features

- ▶ Designed for raised floor, with high S.H.F. and large air volume flow rate.
- ▶ Draining basins of evaporator and unit base are made of stainless material.
- ▶ Precisely control makes constant temperature and humidity.
- ▶ Anti-frozen protection is set on the evaporator coil to avoid breakdown of the system.
- ▶ Twin-compressor design and alternate starting sequence prolong the life of compressor.
- ▶ Air flow velocity passing through the evaporator is less than 2 m/s to avoid water being blown out.

Outdoor:



■ Installation Illustration



■ Specifications

Model	Indoor unit	TSC-5NAF	TSC-8NAF	TSC-10NAF	TSC-15NAF	TSC-20NAF	TSC-30NAF
	Outdoor unit	RP-5NA	RS-8NA	RS-10NA	RP-8NA x2	RP-10NA x2	RS-30NA
Power source		3ø 380V 50Hz					
Cooling capacity	(Btu/hr)	50,000	75,000	100,000	150,000	200,000	300,000
	(kW)	15.0	26.4	32.6	50.0	65.1	97.6
Running current	(A)	11.8	16.3	20.5	30.3	41.0	66.2
Power Input	(kW)	5.26	9.27	11.1	17.2	22.3	36.6
EER	(Btu/hr . W)	2.45	2.45	2.53	2.50	2.51	2.29
COP	(w/w)	2.85	2.85	2.94	2.90	2.92	2.67
Indoor unit	Evaporator	Cross fin coil					
	Type	Multi-Blade					
	Motor (kW)	0.75	1.5	2.2	3.7	5.5	7.5
	Air volume (CMM)	70	110	140	210	280	420
	ESP** (pa)	80	80	80	100	100	200
	Dim. (HxWxD) (mm)	1,762x1,320x854	1,911x1,621x942	1,855x1,857x1,200	2,153x2,200x1,367		
Outdoor unit	Weight (kg)	300	330	350	400	430	1,080
	Condenser	Cross fin coil					
	Type	Scroll x2					
	Quantity	1	2	2	2	2	2(※)
	Capacity Control(%)	0,100	0,50,100	0,50,100	0,50,100	0,50,100	0,50,100
	Type x Quantity	Propeller Fan x2	Propeller Fan x1	Propeller Fan x1	Propeller Fan x1	Propeller Fan x1	Propeller Fan x2
Outdoor unit	Output (W)	84+84	355	460	355	460	770+770
	Dim. (HxWxD) (mm)	1320x930x370	1,308x1,685x630	1,308x1,685x630	1,308x1,685x630	1,308x1,685x630	1,417x2,000x960
	Weight (kg)	120	180	220	180	220	340
Outdoor unit	Starting type	direct	Sequence direct	Sequence direct	Sequence direct	Sequence direct	Sequence direct
	Power supply wiring	Outdoor unit & indoor unit fan					
Outdoor unit	Refrigerant & Control	R-410A / Thermal expansion valve					
	Controller	LED					
Outdoor unit	Indoor unit draining pipe	PS 1B					
	Safety devices	Coil anti-frozen protection, High & low pressure switch, Compressor thermal protector & 3-minute protection Indoor unit fan motor protection, Reversal phase protection					
Piping	Gas side (mm)	ø 19.1×1	ø 19.1×2	ø 19.1×2	ø 22.2×2	ø 28.6×2	ø 28.6×2
	Liquid side (mm)	ø 12.7×1	ø 12.7×2	ø 12.7×2	ø 15.9×2	ø 15.9×2	ø 19.1×2

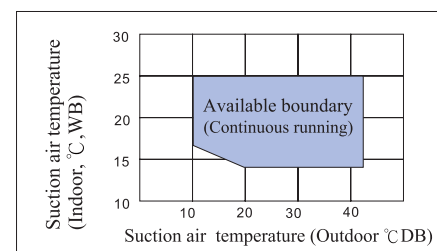
Notes :

1. Cooling Capacity is based on indoor air temp. 27°CDB / 19°CWB, outdoor temp. 35°CDB/24°CWB
2. Cooling operation temperature limits: Indoor 21~32°C, outdoor 10~43°C.
3. Owing to technological advances, the above specifications might be updated without early notice.
4. 1KW=860 kcal/hr ; 1kcal/hr=3.968Btu/hr.
5. Sensible Heat Factor(S.H.F)=0.9

※:The compressors are placed in the indoor unit for model TSC-30NAF.

* * ESP means external static pressure.

■ Operation boundary



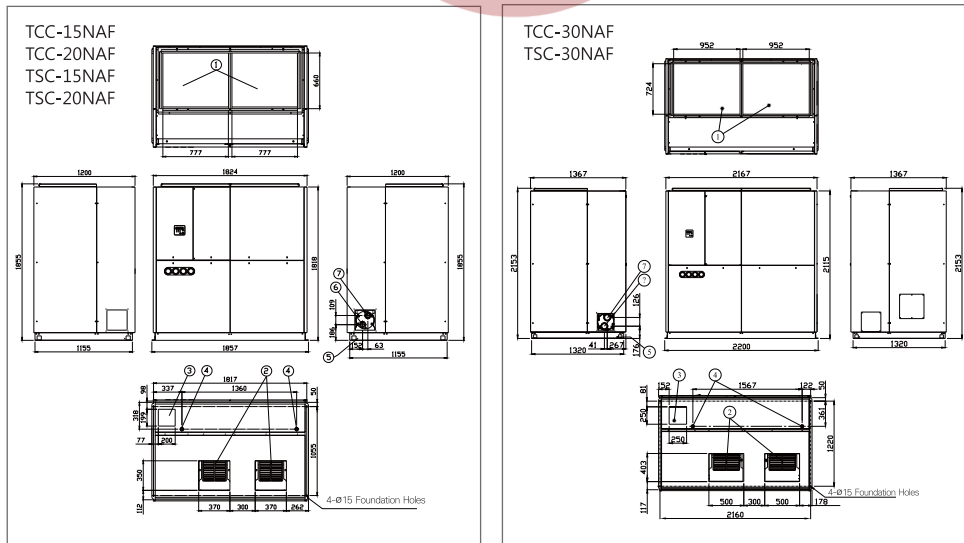
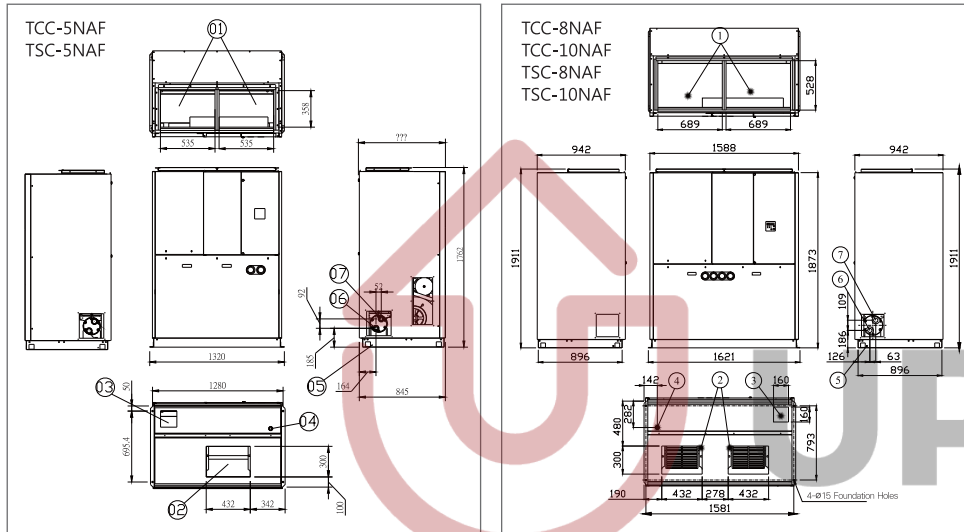
Down-Blasting Type Package



■ Dimensions (mm)

Symbols:

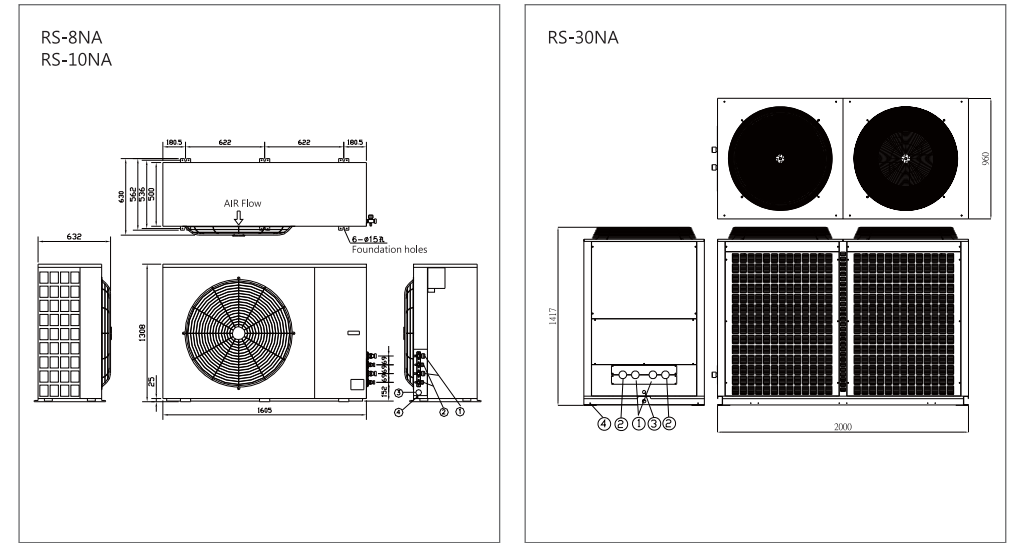
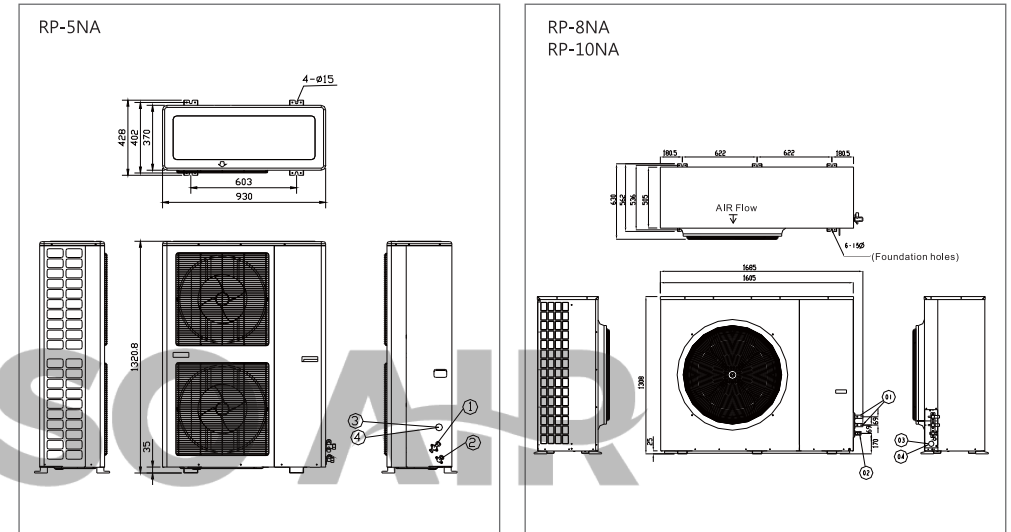
Model	TCC-5~30NAF	TSC-5~30NAF
①	Air Flow Returning Inlet	Air Flow Returning Inlet
②	Air Flow Blasting Outlet	Air Flow Blasting Outlet
③	Piping & Wiring Inlet	Piping & Wiring Inlet
④	Draining Pipe Connector	Draining Pipe Connector
⑤	Grounding bolt terminal	Grounding bolt terminal
⑥	Position of Cooling Water Inlet	
⑦	Position of Cooling Water Outlet	



■ Dimensions (mm)

Symbols:

- ①. Gas side pipe connector
- ②. Liquid side pipe connector
- ③. Power line wiring inlet
- ④. Grounding bolt terminal



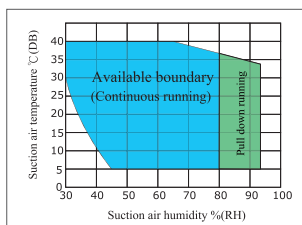
Commercial Dehumidifier



■ Features

- ▶ Wide-temperature application: Tatung Dehumidifier can operate smoothly at the room temperature from 5°C to 40°C.
- ▶ Large dehumidifying capacity.
- ▶ The dirt can be removed through the filter and keep the room air clean.
- ▶ Unique unit designing makes energy-saving and easily installation.
- ▶ LED-display controller: operate the unit more easily and friendly.
- ▶ safety devices: protect the unit from unexpected damage.

■ Operation boundary



■ Specifications

Model	TCD-3LNx	TCD-5LNx
Power Source	3ø 380V 50Hz	
Capacity (L/day)	120 (190)	205 (320)
Based condition	27°C 60%RH (30°C 80%)	
Running current (A)	4.4 (5.0)	6.7 (7.5)
Power consumption (KW)	2.5 (3.1)	3.5 (4.3)
Compressor	Type	Rotary *1
	Adjust (%)	0,100
Cooler (Evaporator)	Cross-fin coil	Cross-fin coil
Re-Heater (Condenser)	Cross-fin coil	Cross-fin coil
Fan	Type	Multi-blade
	Air flow (CMM)	25
	Output (kW)	0.11
Air Filter	Nylon	
Refrigerant Control	Thermal expansion valve	
Humidity regulator	LED Micon	
Defrost method	Defrosting system by superheated vapour	
Safety Devices	High and Low pressure switch, Compressor internal protector, Phase reversal protector.	
Refrigerant type	R-410A	
DIM.	Height (mm)	1,700
	Width (mm)	750
	Depth (mm)	380
Weight	133	180
Draining pipe	PS 1B	

■ Dimensions of Dehumidifier

①.Upper draining fitting	③.Wiring line inlet
②.Liquid side pipe connector	④.Grounding bolt terminal

