

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.

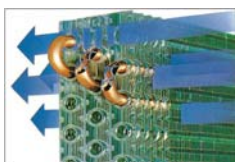
3 Typical fan design

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.



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.



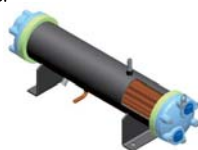
2 High efficiency compressor

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.



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.



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	(kg)	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.



■ 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 (kg)	215	313	345	480	576	

Notes:

- 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	600,000
	(kW)	105.5	140.7	175.8
Condenser water (L/min)	380	515	650	
Running current (A)	53.1	73.0	90.7	
Total input (kW)	25.5	35.06	43.6	
EER (Btu/hr . W)	14.12	13.69	13.76	
COP (w/w)	4.14	4.01	4.03	
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	11.0	
Air volume	(CFM)	9,534	12,712	15,890
	(CMM)	270	360	450
External static pressure (pa)	200	200	250	
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	1,876
	Width (mm)	1,760	1,960	1,960
	Depth (mm)	1,125	1,275	1,275
Weight (kg)	860	1,150	1,250	

Notes:

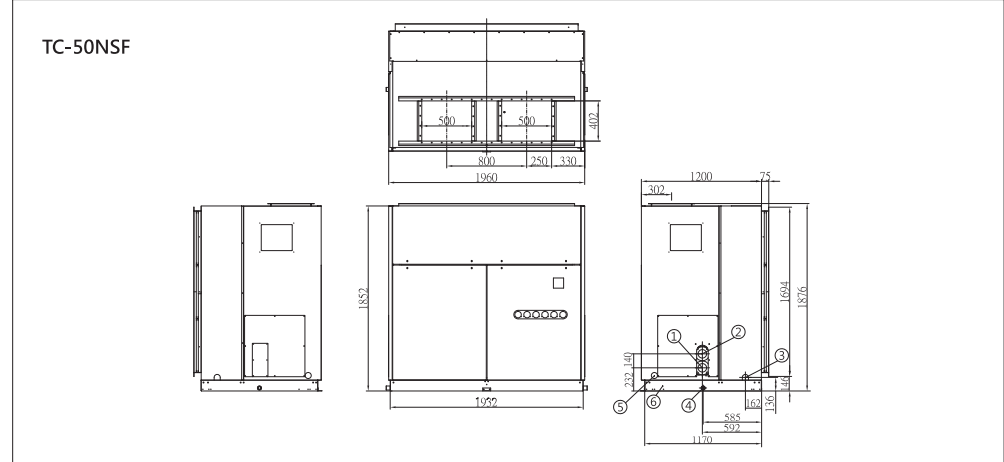
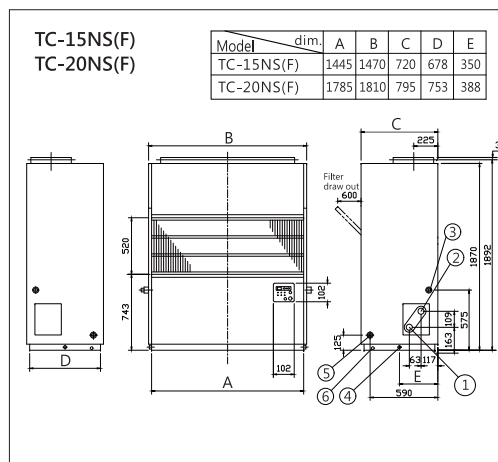
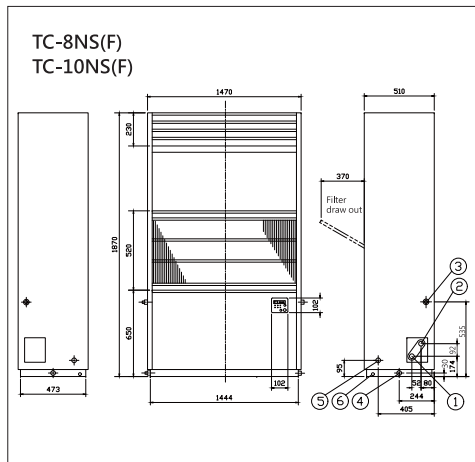
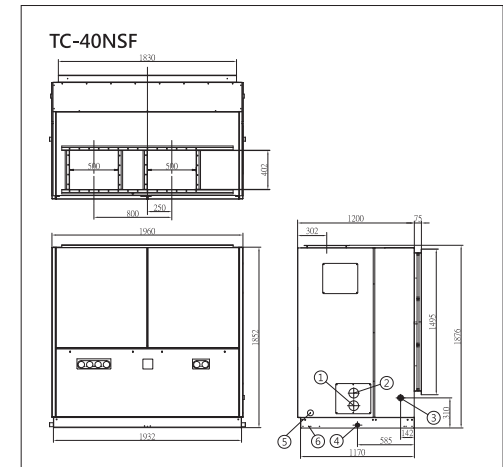
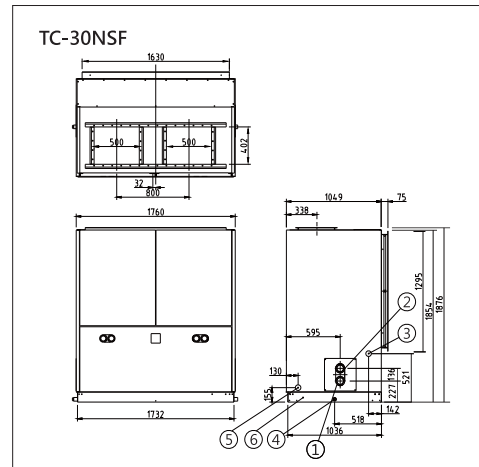
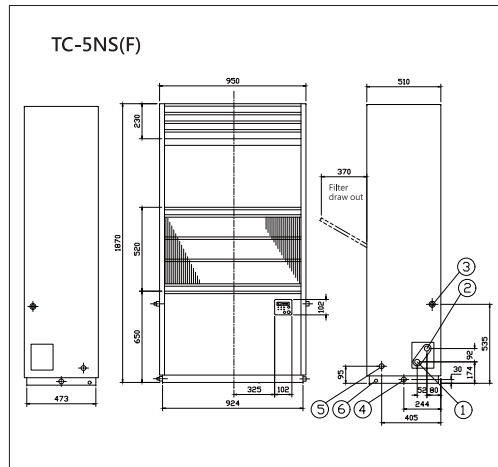
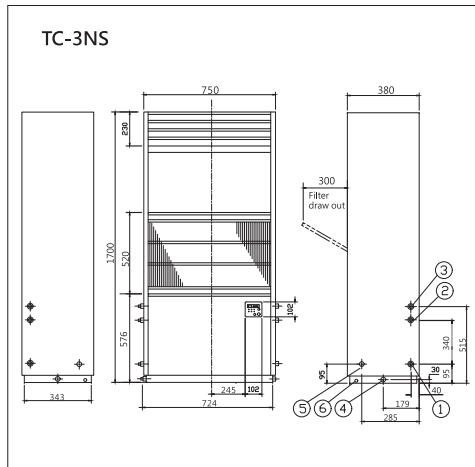
- Cooling capacity is based on the condition at indoor air temperature 27°CDB/19.0°C WB; while condenser inlet water temperature is at 30°C and outlet water temperature is at 35°C.
- 2.1kW=860 kcal/hr; 1kcal/hr=3.968 Btu/hr.



■ Dimensions (mm)

Symbols:

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



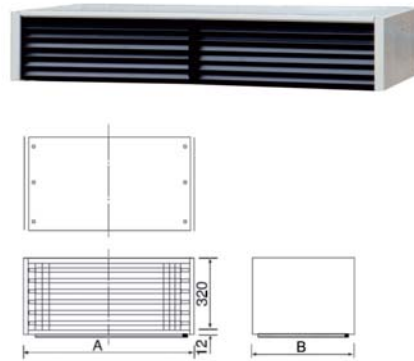
Water-Cooled Package



Plenum Chamber (Optional for free blow type)

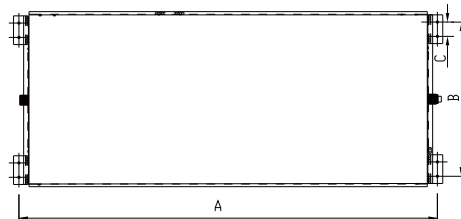
Dimensions (mm)

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



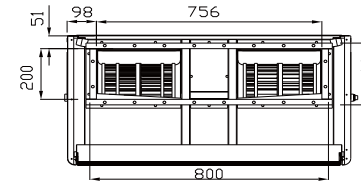
Pitches of foundation holes (unit: mm)

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

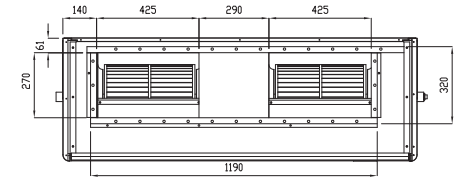


Discharging duct connection dimensions (unit: mm)

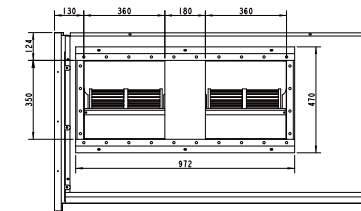
TC-5NSF



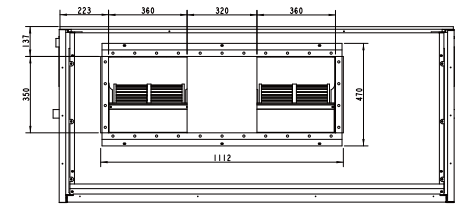
TC-8NSF, TC-10NSF



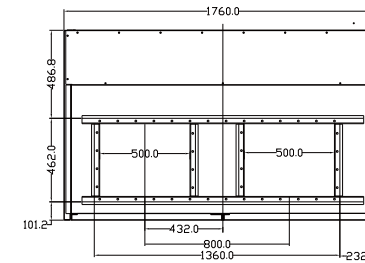
TC-15NSF



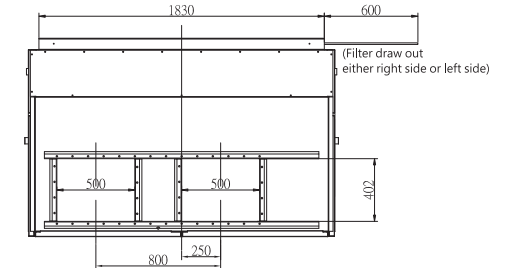
TC-20NSF



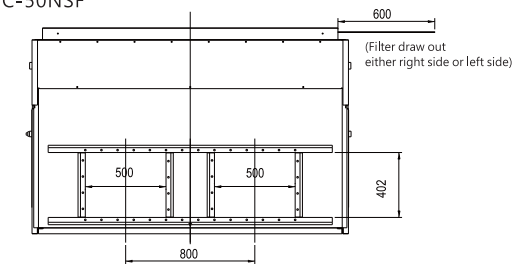
TC-30NSF



TC-40NSF



TC-50NSF



■ Features

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.

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.



5 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.



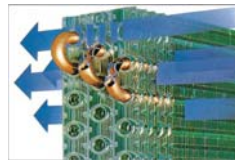
2 High efficiency compressor

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.



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.



■ 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	1,870	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	
		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
	Dim.	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.



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
	EX. Static pressure (pa)	50	50	50	80	80	200	
	Dim.	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							
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		
	Evaporator	Cross fin coil		
	Fan	Type	Multi-Blade	
		Output (W)	158	119
	Air volume	(CMM)	34	67
		EX. Static pressure (pa)	0	0
	Dim.	Height (mm)	1,870	1,890
		Width (mm)	580	1,200
		Depth (mm)	380	340
	Air Filter	Cleanable Nylon Fiber		
Weight (kg)	54	118		
Output unit	Power Source	3ø380V 50Hz		
	Condenser	Cross fin coil		
	Comp.	Type x Quantity	Hermetic Compressor x 1	
		Input (kW)	4.65	1.315
		Capacity Control (%)	0,100	0,100
	Fan	Type	Propeller Fan	
		Output x Quantity (W)	39+39	210 x2
	Dim.	Height (mm)	1,050	908
		Width (mm)	950	1,280
		Depth (mm)	340	700
Weight (kg)		96	185	
Power supply wiring	Outdoor unit			
Refrigerant & Control	R-410 / Capillary tube			
Thermostat	LED display micon controller			
Draining pipe (upper & Lower)	PS 1B			
Safety Devices	Coil anti-frozen protector High & low pressure switch Comp. internal protector Comp. 3-minute protector Reverse phase protector			
Piping	Gas side	ø19.1x1		
	Liquid side	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.

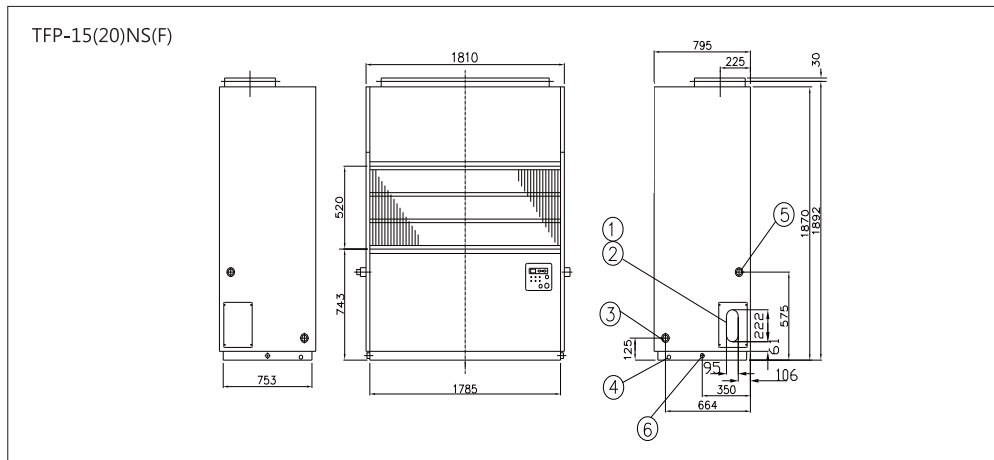
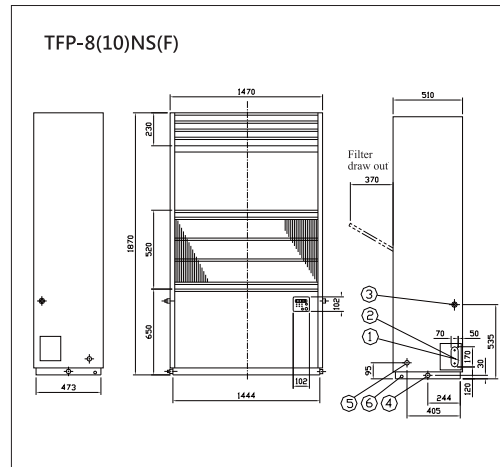
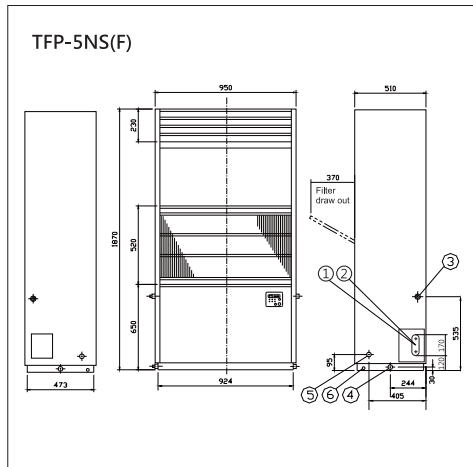
Air-Cooled Package



Indoor units dimensions (mm)

Symbols:

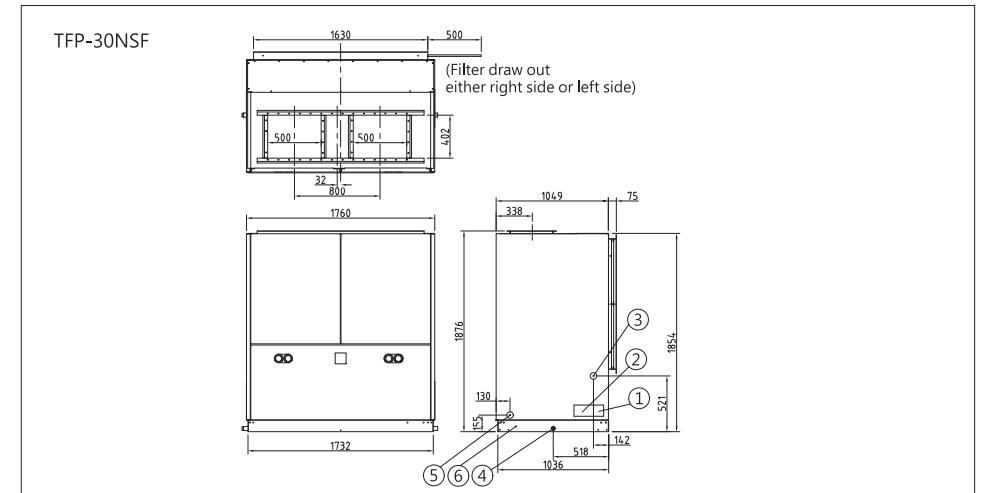
- ①. Liquid side pipe inlet
- ②. Gas side pipe inlet
- ③. Upper draining pipe outlet
- ④. Lower draining pipe outlet
- ⑤. Power line wiring inlet
- ⑥. Grounding terminal bolt



Indoor units dimensions (mm)

Symbols:

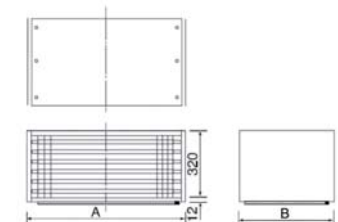
- ①. Liquid side pipe inlet
- ②. Gas side pipe inlet
- ③. Upper draining pipe outlet
- ④. Lower draining pipe outlet
- ⑤. Power line wiring inlet
- ⑥. Grounding terminal bolt



Plenum Chamber (Optional for free blow type)

Dimensions (mm)

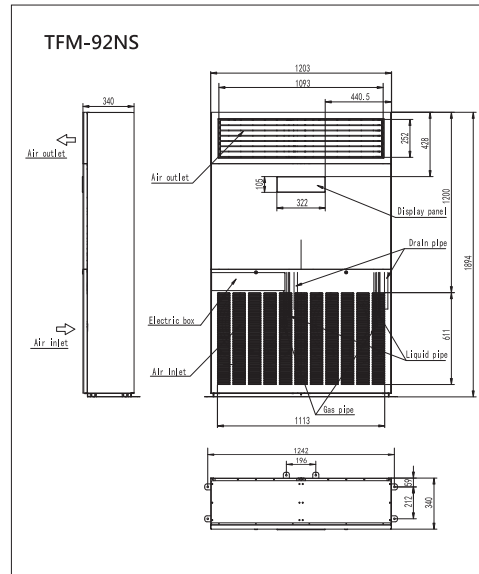
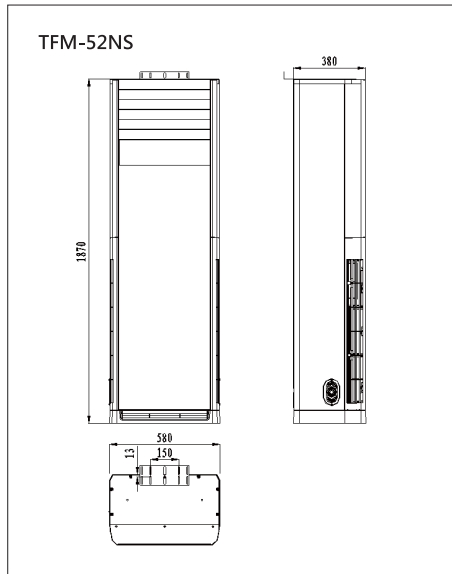
Model	Dimensions:			Fitting units
	Weight	Width (A)	Depth (B)	
FA-20N	22kg	1810	795	TFP-15NS, TFP-20NS, TFP-20CANS



Air-Cooled Package



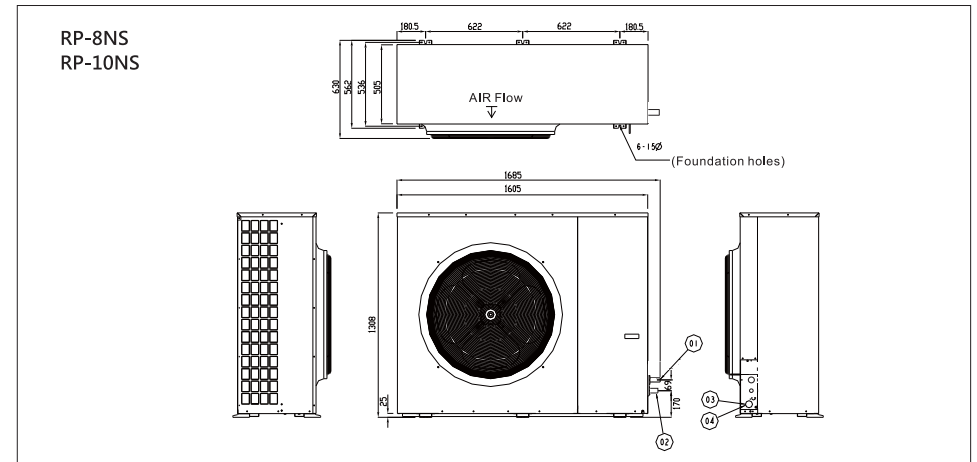
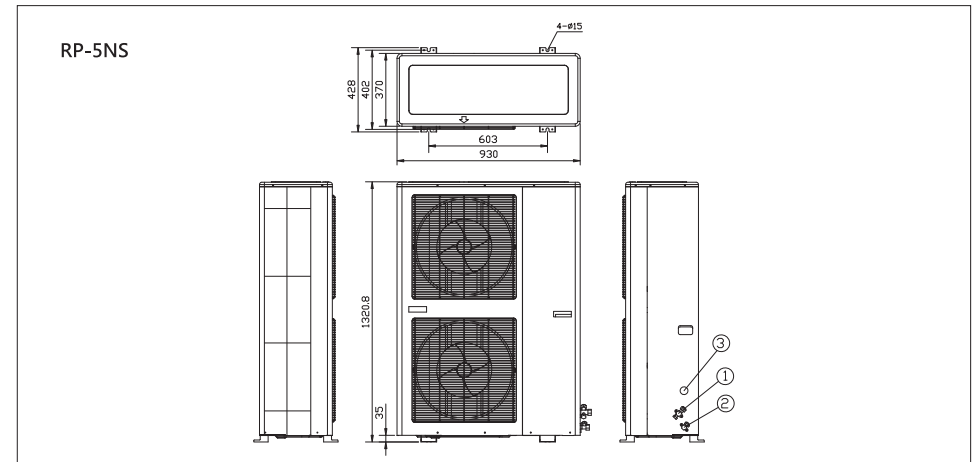
Indoor units dimensions (mm)



Outdoor units dimensions (mm)

Symbols:

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



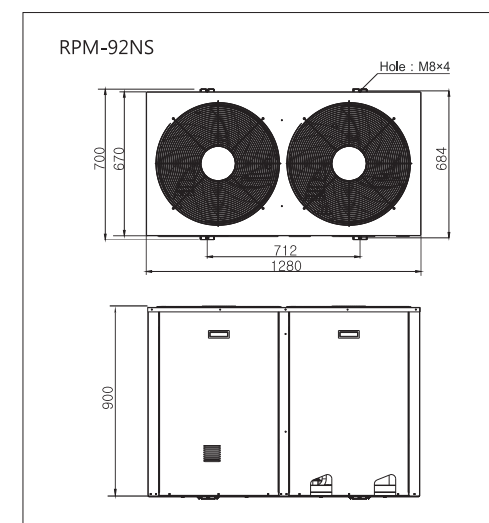
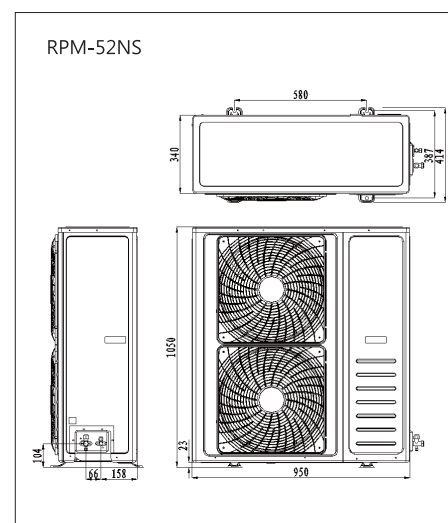
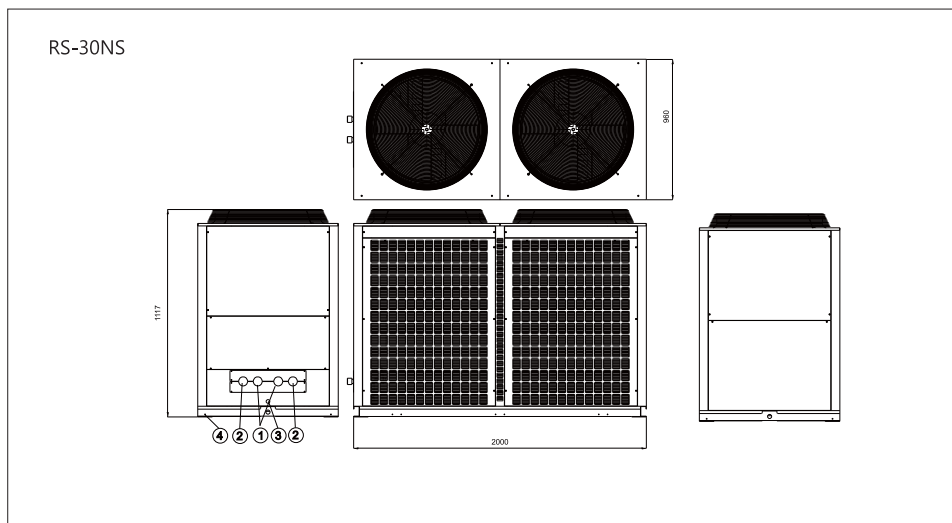
Air-Cooled Package



Outdoor units dimensions (mm)

Symbols:

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

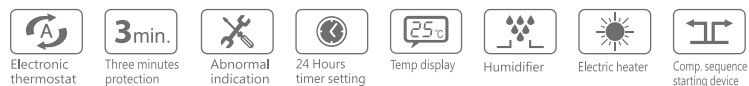


Water-Cooled Down-Blasting Type Package

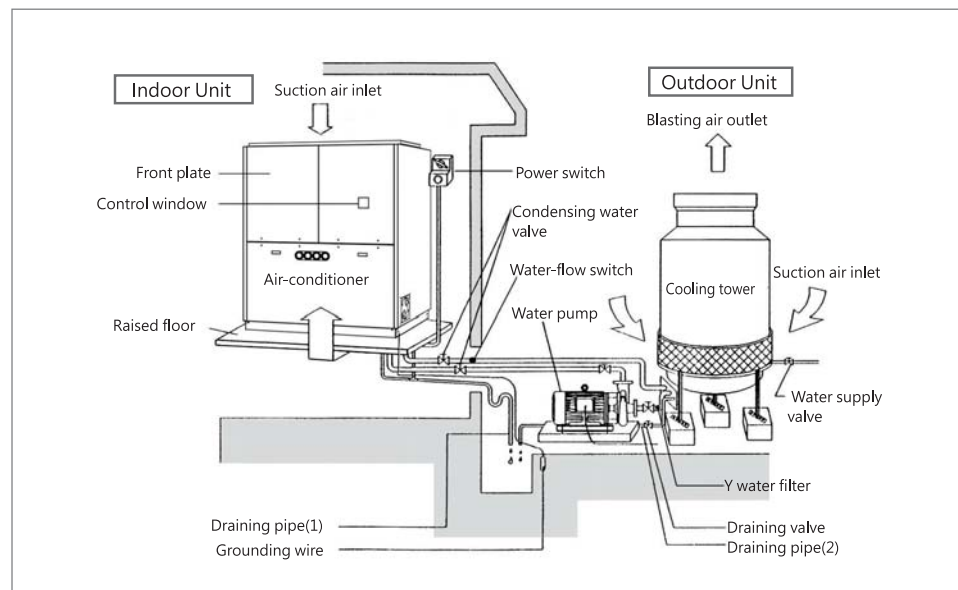


■ Features

- ▶ 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



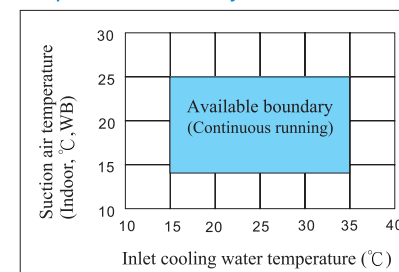
■ Specifications

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	360,000
	(kW)	18.0	30.0	35.2	53.2	70.3	105.5
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	2
Fan	Type	Dual Suction Multi-Blades					
	Motor output (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
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	1,155

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

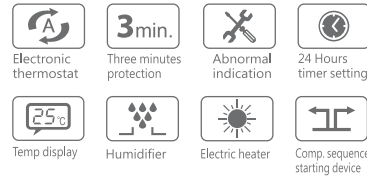


■ Features

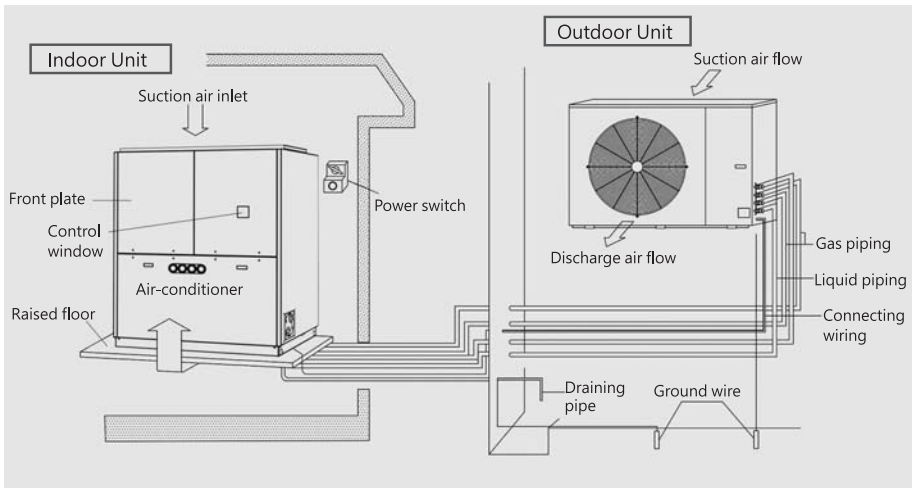
- ▶ Designed for raised floor, with high S.H.F. and large air volume flow rate.
- ▶ Draining basins of evaporator and unit base are made of stainless material.
- ▶ Precisely control makes constant temperature and humidity.
- ▶ Anti-frozen protection is set on the evaporator coil to avoid breakdown of 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



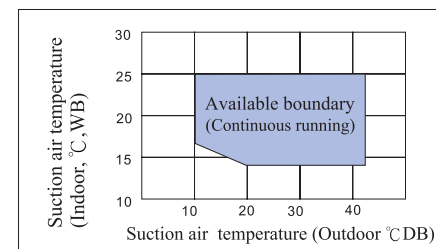
■ Specifications

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
Weight (kg)	300	330	350	400	430	1,080	
Outdoor unit	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 x2
	Output (W)	84+84	355	460	355	460	770+770
Dim. (HxWxD) (mm)	1320x930x370	1,308x1,685x630		1,308x1,685x630		1,417x2,000x960	
Weight (kg)	120	180	220	180	220	340	
Starting type	direct	Sequence direct					
Power supply wiring	Outdoor unit & indoor unit fan						
Refrigerant & Control	R-410A / Thermal expansion valve						
Controller	LED						
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 ; 1kca/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



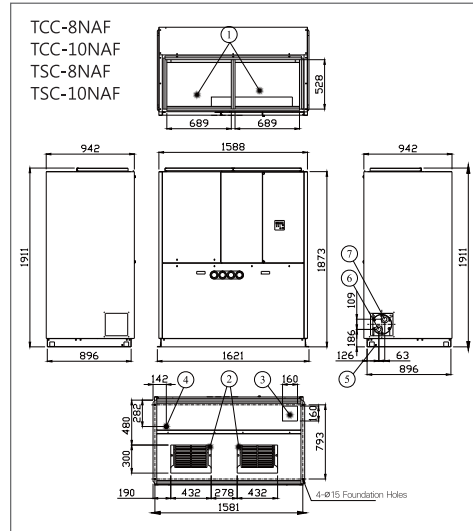
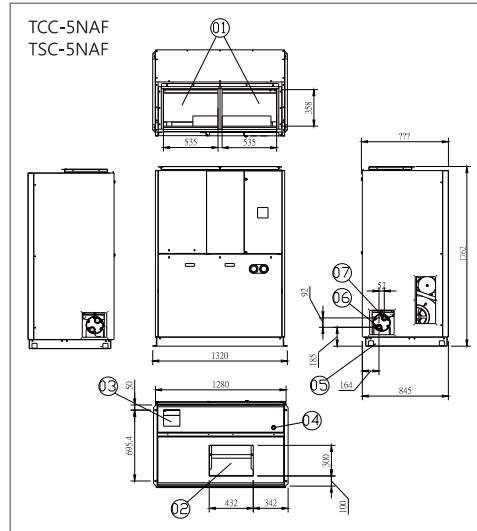
Down-Blasting Type Package



■ Dimensions (mm)

Symbols:

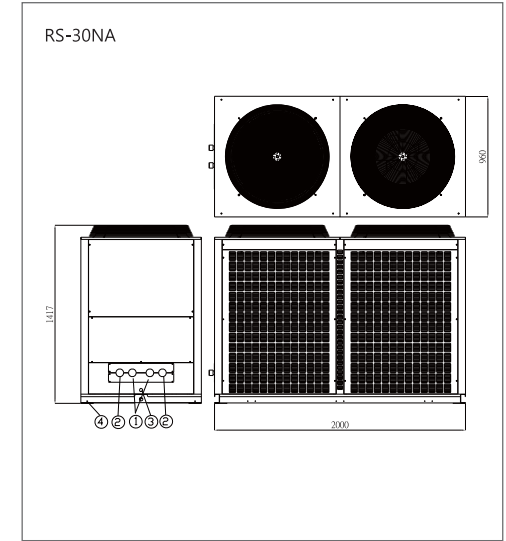
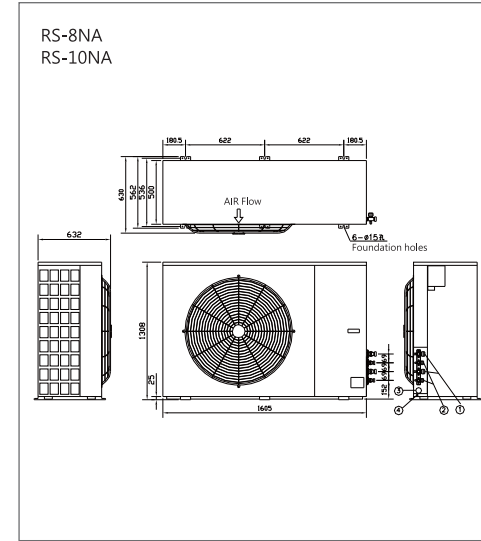
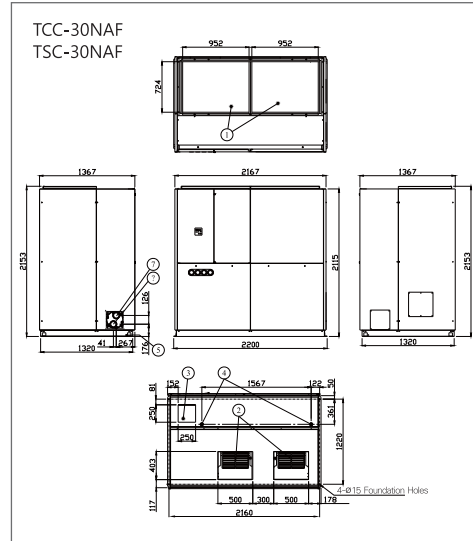
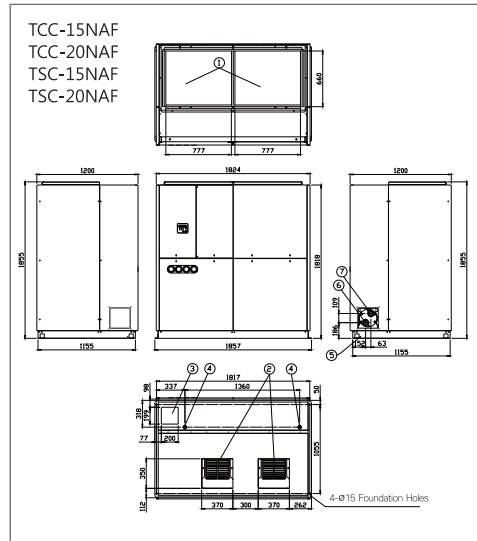
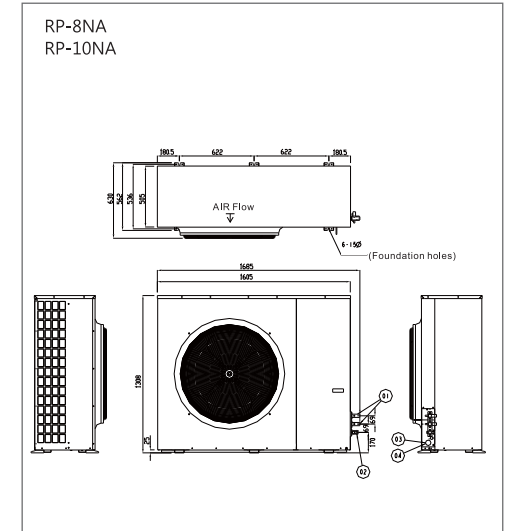
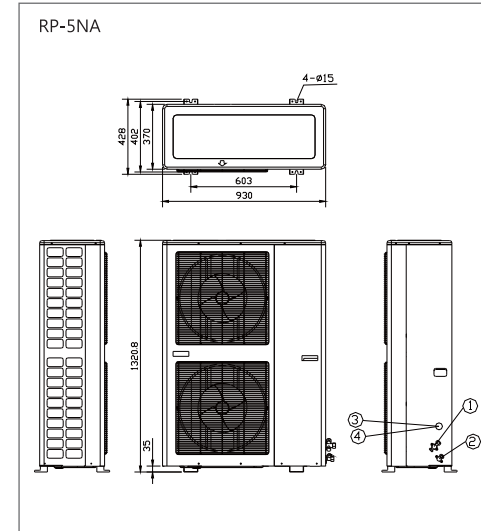
Item	TCC-5~30NAF	TSC-5~30NAF
①	Air Flow Returning Inlet	Air Flow Returning Inlet
②	Air Flow Blasting Outlet	Air Flow Blasting Outlet
③	Piping & Wiring Inlet	Piping & Wiring Inlet
④	Draining Pipe Connector	Draining Pipe Connector
⑤	Grounding bolt terminal	Grounding bolt terminal
⑥	Position of Cooling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

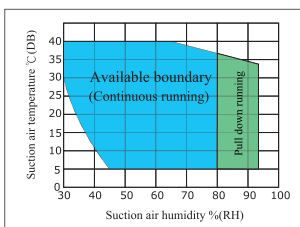


■ Features

- ▶ 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
Compressor	Hermetic Compressor *1	
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

