

Concealed Type
F3 Series



Exposed Type
(air return from bottom)
F2 Series



Exposed Type
(air return from side)
F1 Series



High Efficiency and Low Sound Operation

- Due to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Flexible Installation

- Cabinet and concealed versions meet various installation requirements.
- Horizontal or vertical installation.



Feature

- Auto mode and seven speed fan motor
- Ultra-thin, the thickness is only 200mm.
- Hysteresis temperature can be set in heating and cooling mode by PCB switch, field adjustable.
- With/without forced fan on can be set by PCB switch, field adjustable.
- The centralized control function can be connected through the customization XYE port.
- The Gateway(Modbus) can be connected through the customization PQE port.
- Wired controller **NC-75A** is optional.
- 0-10V wired control is optional.

2- Pipe 2nd Generation Ceiling&Floor

Model			NFF1-V150-3-2P	NFF1-V150-4-2P	NFF1-V250-3-2P	NFF1-V250-4-2P	NFF1-V350-3-2P	NFF1-V350-4-2P
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m³/h	245/160/135	245/180/130	380/245/140	380/240/110	580/435/310	580/430/300
		CFM	144/94/79	144/106/76	224/144/82	224/141/65	341/256/182	341/253/176
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	1.44/1.01/0.88	1.87/1.59/1.16	2.23/1.84/1.13	2.55/1.90/1.26	3.41/2.81/2.16	3.80/3.11/2.36
	Water flow rate(H/M/L)	m³/h	0.25/0.17/0.15	0.32/0.27/0.2	0.38/0.32/0.19	0.44/0.33/0.22	0.58/0.48/0.37	0.65/0.53/0.40
	Water pressure drop(H/M/L)	kPa	13.4/7.9/6.0	26.1/20.1/11.8	12.7/9.5/4.4	23.2/13.5/6.6	33.4/24.0/15.0	36.5/25.3/15.0
Heating	Capacity (H/M/L)	kW	1.50/1.02/0.88	1.97/1.68/1.20	2.47/2.00/1.27	2.63/1.92/1.27	3.70/3.02/2.29	3.90/3.13/2.43
	Water flow rate(H/M/L)	m³/h	0.26/0.17/0.15	0.34/0.29/0.21	0.42/0.34/0.22	0.45/0.33/0.22	0.63/0.52/0.39	0.67/0.54/0.40
	Water pressure drop(H/M/L)	kPa	14.5/7.3/5.6	24.0/18.8/9.9	13.6/9.8/4.3	21.8/12.2/5.9	34.2/23.8/14.5	35.6/24.7/13.9
Power input (H/M/L)		W	19/15/10	20/16/11	20/13/10	21/12/8	27/18/11	30/18/12
Sound power level (H/M/L)		dB(A)	47/36/34	52/46/39	43/35/27	46/38/30	52/45/37	52/45/37
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	1	2	2	2	2
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (WxHxD)	mm	790×495×211	790×495×211	1020×495×211	1020×495×211	1240×495×211	1240×495×211
	Packing size (WxHxD)	mm	895×595×300	895×595×300	1125×595×300	1125×595×300	1345×595×300	1345×595×300
	Net weight	kg	18.0	18.5	21.5	22.0	25.5	26.5
	Gross weight	kg	23.5	24.0	27.5	28.0	32.5	33.5
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Model			NFF1-V500-3-2P	NFF1-V500-4-2P	NFF1-V700-3-2P	NFF1-V700-4-2P	NFF1-V800-3-2P	NFF1-V800-4-2P
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m³/h	780/550/380	780/560/390	1050/750/450	1050/770/460	1150/850/570	1150/860/600
		CFM	459/324/224	459/329/229	618/441/265	618/453/271	676/500/335	676/506/353
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	4.25/3.43/2.67	4.73/3.82/2.85	4.94/3.94/2.77	5.60/4.58/3.19	6.21/5.17/3.86	7.30/5.88/4.28
	Water flow rate(H/M/L)	m³/h	0.73/0.59/0.46	0.81/0.65/0.49	0.85/0.68/0.47	0.96/0.79/0.55	1.06/0.89/0.66	1.25/1.01/0.73
	Water pressure drop(H/M/L)	kPa	53.5/35.8/24.1	53.0/35.9/21.2	44.7/29.5/15.6	28.9/19.2/10.1	37.3/28.5/16.4	63.0/40.8/22.5
Heating	Capacity (H/M/L)	kW	4.64/3.65/2.77	5.12/3.98/2.96	5.29/4.20/2.96	6.22/4.95/3.37	6.80/5.46/3.98	7.70/6.02/4.29
	Water flow rate(H/M/L)	m³/h	0.80/0.63/0.47	0.88/0.68/0.51	0.91/0.72/0.51	1.07/0.85/0.58	1.17/0.94/0.68	1.32/1.03/0.74
	Water pressure drop(H/M/L)	kPa	53.6/36.4/22.0	52.0/35.6/20.0	49.0/33.2/17.0	33.2/22.5/11.0	39.7/27.0/15.4	55.0/36.4/19.2
Power input (H/M/L)		W	50/26/15	52/28/15	98/45/18	99/50/20	105/50/24	105/50/23
Sound power level (H/M/L)		dB(A)	59/52/43	59/52/43	65/57/45	65/56/46	66/59/49	65/59/49
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		2	2	3	3	3	3
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (WxHxD)	mm	1240×495×211	1240×495×211	1360×495×211	1360×495×211	1360×495×211	1360×495×211
	Packing size (WxHxD)	mm	1345×595×300	1345×595×300	1465×595×300	1465×595×300	1465×595×300	1465×595×300
	Net weight	kg	25.5	26.5	28.5	29.5	32.5	34.5
	Gross weight	kg	32.5	33.5	36.0	37.0	41.0	42.5
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7 C., leaving water 12 C., Entering air temperature 27 C. DB/19 C. WB.
Heating conditions: Entering water 45 C., leaving water 40 C., Entering air temperature 20 C. DB/15 C. WB.
3. Noise is tested in a reverberation chamber.

2- Pipe 2nd Generation Ceiling&Floor

Model			NFF2-V150-3-2P	NFF2-V150-4-2P	NFF2-V250-3-2P	NFF2-V250-4-2P	NFF2-V350-3-2P	NFF2-V350-4-2P
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m³/h	255/170/150	255/210/150	400/315/190	425/300/190	595/470/340	595/450/310
		CFM	150/100/88	150/124/88	235/185/112	250/176/112	350/276/200	350/265/182
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	1.50/1.06/0.92	1.95/1.66/1.21	2.35/1.94/1.19	2.85/2.13/1.41	3.50/2.89/2.22	3.90/3.20/2.43
	Water flow rate(H/M/L)	m³/h	0.26/0.18/0.16	0.33/0.28/0.21	0.40/0.34/0.21	0.49/0.37/0.24	0.60/0.50/0.38	0.67/0.55/0.42
	Water pressure drop(H/M/L)	kPa	13.9/8.21/6.16	27.2/20.88/12.2	13.3/9.98/4.59	26/15.06/7.41	34.1/24.63/15.39	37.4/25.91/15.37
Heating	Capacity (H/M/L)	kW	1.57/1.07/0.92	2.05/1.75/1.25	2.60/2.11/1.34	2.95/2.15/1.42	3.80/3.10/2.35	4.00/3.22/2.50
	Water flow rate(H/M/L)	m³/h	0.27/0.19/0.16	0.35/0.30/0.22	0.45/0.37/0.23	0.51/0.37/0.24	0.65/0.53/0.40	0.70/0.56/0.43
	Water pressure drop(H/M/L)	kPa	15.1/7.63/5.84	25.3/19.65/10.25	14.3/10.33/4.5	24.4/13.65/6.64	35.1/24.41/14.82	36.5/25.34/14.22
Power input (H/M/L)		W	15/9/8	20/14/9	17/12/7	20/11/8	26/17/10	29/17/11
Sound power level		(H/M/L) dB(A)	47/36/34	52/46/38	43/37/29	46/37/29	52/44/36	52/45/36
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	1	2	2	2	2
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94
Body	Net dimensions (WxHxD)	mm	790x495x200	790x495x200	1020x495x200	1020x495x200	1240x495x200	1240x495x200
	Packing size (WxHxD)	mm	895x595x300	895x595x300	1125x595x300	1125x595x300	1345x595x300	1345x595x300
	Net weight	kg	18.0	18.5	21.5	22.0	25.5	26.5
	Gross weight	kg	23.5	24.0	27.5	28.0	32.5	33.5
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5

Model			NFF2-V500-3-2P	NFF2-V500-4-2P	NFF2-V700-3-2P	NFF2-V700-4-2P	NFF2-V800-3-2P	NFF2-V800-4-2P
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m³/h	790/580/410	800/600/420	1190/855/505	1190/875/530	1360/1015/685	1300/980/680
		CFM	488/359/253	471/353/247	700/503/297	700/515/312	800/597/403	765/576/400
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	4.30/3.48/2.71	4.85/3.92/2.93	5.60/4.47/3.14	6.35/5.19/3.62	7.35/6.12/4.57	8.25/6.65/4.84
	Water flow rate(H/M/L)	m³/h	0.74/0.60/0.47	0.83/0.67/0.51	0.96/0.77/0.54	1.09/0.90/0.63	1.27/1.05/0.79	1.43/1.14/0.83
	Water pressure drop(H/M/L)	kPa	54.2/36.22/22.78	54.3/36.81/21.77	50.7/33.38/17.73	32.8/21.75/11.43	44.1/33.7/19.41	71.4/46.17/25.39
Heating	Capacity (H/M/L)	kW	4.70/3.70/2.81	5.25/4.09/3.04	6.00/4.77/3.36	7.05/5.61/3.83	8.05/6.46/4.71	8.70/6.81/4.85
	Water flow rate(H/M/L)	m³/h	0.81/0.64/0.48	0.91/0.71/0.53	1.04/0.83/0.59	1.22/0.98/0.67	1.39/1.12/0.82	1.51/1.18/0.83
	Water pressure drop(H/M/L)	kPa	54.3/36.87/22.32	53.4/36.54/20.47	55.5/37.66/19.27	37.6/25.47/12.5	46.9/31.9/18.16	62.6/41.06/21.68
Power input (H/M/L)		W	50/25/14	52/28/15	96/44/17	92/46/19	113/53/22	102/49/22
Sound power level		(H/M/L) dB(A)	59/51/43	59/51/43	64/56/45	62/56/46	63/58/49	63/57/47
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		2	2	3	3	3	3
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94
Body	Net dimensions (WxHxD)	mm	1240x495x200	1240x495x200	1360x495x200	1360x495x200	1360x591x200	1360x591x200
	Packing size (WxHxD)	mm	1345x595x300	1345x595x300	1465x595x300	1465x595x300	1465x695x300	1465x695x300
	Net weight	kg	25.5	26.5	28.5	29.5	32.5	34.5
	Gross weight	kg	32.5	33.5	36.0	37.0	41.0	42.5
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5

- Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
 2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB/15°C WB.
 3. Noise is tested in a reverberation chamber.

Model			NFF3-V150-3-2P	NFF3-V150-4-2P	NFF3-V250-3-2P	NFF3-V250-4-2P	NFF3-V350-3-2P	NFF3-V350-4-2P
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m³/h	255/170/150	255/210/150	400/315/190	425/300/190	595/470/340	595/450/310
		CFM	150/100/88	150/124/88	235/185/112	250/176/112	350/276/200	350/265/182
External static pressure		Pa	12					
Cooling	Capacity (H/M/L)	kW	1.50/1.06/0.92	1.95/1.66/1.21	2.35/1.94/1.19	2.85/2.13/1.41	3.50/2.89/2.22	3.90/3.20/2.43
	Water flow rate(H/M/L)	m³/h	0.26/0.18/0.16	0.33/0.28/0.21	0.40/0.34/0.21	0.49/0.37/0.24	0.60/0.50/0.38	0.67/0.55/0.42
	Water pressure drop(H/M/L)	kPa	13.9/8.21/6.16	27.2/20.88/12.2	13.3/9.98/4.59	26/15.06/7.41	34.1/24.63/15.39	37.4/25.91/15.37
Heating	Capacity (H/M/L)	kW	1.57/1.07/0.92	2.05/1.75/1.25	2.60/2.11/1.34	2.95/2.15/1.42	3.80/3.10/2.35	4.00/3.22/2.50
	Water flow rate(H/M/L)	m³/h	0.27/0.19/0.16	0.35/0.30/0.22	0.45/0.37/0.23	0.51/0.37/0.24	0.65/0.53/0.40	0.70/0.56/0.43
	Water pressure drop(H/M/L)	kPa	15.1/7.63/5.84	25.3/19.65/10.25	14.3/10.33/4.5	24.4/13.65/6.64	35.1/24.41/14.82	36.5/25.34/14.22
Power input (H/M/L)		W	15/9/8	20/14/9	17/12/7	20/11/8	26/17/10	29/17/11
Sound power level		(H/M/L) dB(A)	47/36/34	52/46/38	43/37/29	46/37/29	52/44/36	52/45/36
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	1	2	2	2	2
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94
Body	Net dimensions (WxHxD)	mm	637x455x200	637x455x200	867x455x200	867x455x200	1087x455x200	1087x455x200
	Packing size (WxHxD)	mm	755x555x255	755x555x255	985x555x255	985x555x255	1205x555x255	1205x555x255
	Net weight	kg	11.8	12.1	13.9	14.8	17.3	18.2
	Gross weight	kg	16.1	16.4	19.4	20.3	24.0	24.9
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5

Model			NFF3-V500-3-2P	NFF3-V500-4-2P	NFF3-V700-3-2P	NFF3-V700-4-2P	NFF3-V800-3-2P	NFF3-V800-4-2P
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m³/h	790/580/410	800/600/420	1190/855/505	1190/875/530	1360/1015/685	1300/980/680
		CFM	488/359/253	471/353/247	700/503/297	700/515/312	800/597/403	765/576/400
External static pressure		Pa	12					
Cooling	Capacity (H/M/L)	kW	4.30/3.48/2.71	4.85/3.92/2.93	5.60/4.47/3.14	6.35/5.19/3.62	7.35/6.12/4.57	8.25/6.65/4.84
	Water flow rate(H/M/L)	m³/h	0.74/0.60/0.47	0.83/0.67/0.51	0.96/0.77/0.54	1.09/0.90/0.63	1.27/1.05/0.79	1.43/1.14/0.83
	Water pressure drop(H/M/L)	kPa	54.2/36.22/22.78	54.3/36.81/21.77	50.7/33.38/17.73	32.8/21.75/11.43	44.1/33.7/19.41	71.4/46.17/25.39
Heating	Capacity (H/M/L)	kW	4.70/3.70/2.81	5.25/4.09/3.04	6.00/4.77/3.36	7.05/5.61/3.83	8.05/6.46/4.71	8.70/6.81/4.85
	Water flow rate(H/M/L)	m³/h	0.81/0.64/0.48	0.91/0.71/0.53	1.04/0.83/0.59	1.22/0.98/0.67	1.39/1.12/0.82	1.51/1.18/0.83
	Water pressure drop(H/M/L)	kPa	54.3/36.87/22.32	53.4/36.54/20.47	55.5/37.66/19.27	37.6/25.47/12.5	46.9/31.9/18.16	62.6/41.06/21.68
Power input (H/M/L)		W	50/25/14	52/28/15	96/44/17	92/46/19	113/53/22	102/49/22
Sound power level		(H/M/L) dB(A)	59/51/43	59/51/43	64/56/45	62/56/46	63/58/49	63/57/47
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		2	2	3	3	3	3
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94
Body	Net dimensions (WxHxD)	mm	1087x455x200	1087x455x200	1207x455x200	1207x455x200	1207x550x200	1207x550x200
	Packing size (WxHxD)	mm	1205x555x255	1205x555x255	1325x555x255	1325x555x255	1325x650x255	1325x650x255
	Net weight	kg	17.3	18.2	19.6	20.8	23.1	24.3
	Gross weight	kg	24.0	24.9	26.4	27.6	30.2	31.4
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5

- Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
 2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB/15°C WB.
 3. Noise is tested in a reverberation chamber.
 4. F3 series test with concealed tooling.

4- Pipe 2nd Generation Ceiling&Floor

Model			NFF1-V150-4-4P	NFF1-V250-4-4P	NFF1-V350-4-4P	NFF1-V500-4-4P	NFF1-V700-4-4P	NFF1-V800-4-4P
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m³/h	245/180/130	380/240/110	580/430/300	780/560/390	1050/770/460	1150/860/600
		CFM	144/106/76	224/141/65	341/253/176	459/329/229	618/453/271	676/506/353
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	1.63/1.38/0.91	2.41/1.73/0.99	3.70/3.10/2.26	4.49/3.66/2.76	5.34/4.41/3.02	6.77/5.48/4.02
	Water flow rate(H/M/L)	m³/h	0.279/0.24/0.16	0.41/0.30/0.17	0.63/0.53/0.38	0.77/0.63/0.47	0.92/0.76/0.52	1.16/0.94/0.69
	Water pressure drop(H/M/L)	kPa	17.5/13.2/7.2	15.2/8.7/3.1	38.2/27.6/16.5	54.8/38.1/23.2	47.4/32.6/16.8	42.5/28.8/16.2
Heating	Capacity (H/M/L)	kW	1.35/1.18/0.91	2.06/1.45/1.02	2.81/2.43/1.95	3.27/2.81/2.30	4.06/3.48/2.66	6.63/5.7/4.62
	Water flow rate(H/M/L)	m³/h	0.12/0.10/0.08	0.18/0.13/0.09	0.24/0.21/0.17	0.28/0.24/0.20	0.35/0.3/0.23	0.57/0.49/0.40
	Water pressure drop(H/M/L)	kPa	10.3/8.2/5.3	25.2/15.0/8.5	54.0/41.9/28.5	67.8/53.3/37.3	116.76/91.94/56.23	63.4/49.7/33.1
Power input (H/M/L)		W	20/16/11	21/12/8	30/18/12	52/28/15	99/50/20	105/50/23
Sound power level		(H/M/L) dB(A)	52/46/39	46/38/30	52/45/37	59/52/43	65/56/46	65/59/49
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	2	2	2	3	3
Coil	Row		4	4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94
Body	Net dimensions (WxHxD)	mm	790x495x211	1020x495x211	1240x495x211	1240x495x211	1360x495x211	1360x591x211
	Packing size (WxHxD)	mm	895x595x300	1125x595x300	1345x595x300	1345x595x300	1465x595x300	1465x695x300
	Net weight	kg	19.0	22.5	27.0	27.0	30.0	35.0
	Gross weight	kg	24.5	28.5	34.0	34.0	37.5	43.0
Water inlet/outlet pipe		inch	Cold water: G3/4; Hot water: G1/2					
Drain pipe		mm	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5	ODØ18.5

Model			NFF2-V150-4-4P	NFF2-V250-4-4P	NFF2-V350-4-4P	NFF2-V500-4-4P	NFF2-V700-4-4P	NFF2-V800-4-4P
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m³/h	255/206/134	425/280/158	595/461/324	800/595/417	1190/887/564	1300/969/661
		CFM	150/121/79	250/165/93	350/271/191	471/350/245	700/522/332	765/570/389
External static pressure		Pa	0					
Cooling	Sensible Capacity(H/M/L)	kW	1.30/1.07/0.64	1.90/1.30/0.70	2.80/2.30/1.61	3.50/2.75/2.01	4.80/3.88/2.53	5.90/4.60/3.30
	Capacity (H/M/L)	kW	1.70/1.44/0.95	2.70/1.94/1.10	3.80/3.18/2.32	4.60/3.75/2.83	6.05/5.00/3.43	7.65/6.19/4.54
	Water flow rate	m³/h	0.29/0.25/0.16	0.46/0.33/0.19	0.65/0.55/0.40	0.79/0.64/0.49	1.04/0.86/0.59	1.31/1.06/0.78
	Water pressure drop	kPa	18.16/13.74/7.50	16.97/9.73/3.51	39.17/28.35/16.91	56.18/39.04/23.84	53.66/36.96/19.07	48.07/32.56/18.32
Heating	Capacity (H/M/L)	kW	1.40/1.23/0.95	2.30/1.78/1.22	2.88/2.49/2.00	3.35/2.88/2.36	4.60/3.95/3.02	7.50/6.44/5.22
	Water flow rate	m³/h	0.12/0.11/0.08	0.20/0.15/0.10	0.25/0.21/0.17	0.29/0.25/0.20	0.39/0.34/0.26	0.64/0.55/0.45
	Water pressure drop	kPa	10.74/8.50/5.49	28.16/18.45/10.08	55.37/43.00/29.20	69.57/54.65/38.21	132.32/104.19/63.73	71.63/56.17/37.44
Power input (H/M/L)		W	20/14/9	20/11/8	29/17/11	52/28/15	92/46/19	102/49/22
Rated current		A	0.21	0.22	0.28	0.51	0.79	0.87
Sound power level		(H/M/L) dB(A)	52/46/38	46/37/29	52/45/36	59/52/43	63/58/46	64/57/47
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	2	2	2	3	3
Coil	Row		4	4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94
Body	Net dimensions (WxHxD)	mm	790x495x200	1020x495x200	1240x495x200	1240x495x200	1360x495x200	1360x591x200
	Packing size (WxHxD)	mm	895x595x300	1125x595x300	1345x595x300	1345x595x300	1465x595x300	1465x695x300
	Net weight	kg	19.0	22.5	27.0	27.0	30.0	35.0
	Gross weight	kg	24.5	28.5	34.0	34.0	37.5	43.0
Water inlet/outlet pipe		inch	Cold water: G3/4; Hot water: G1/2					
Drain pipe		mm	ODØ18.5					

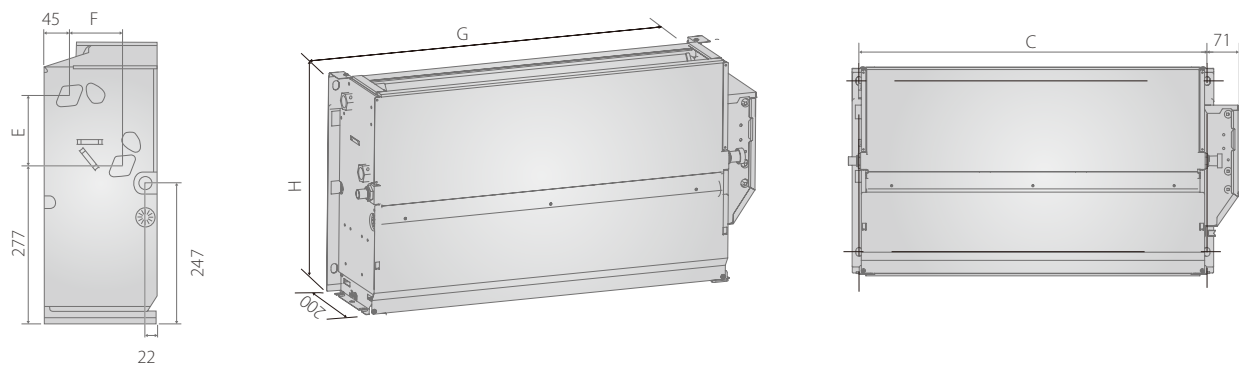
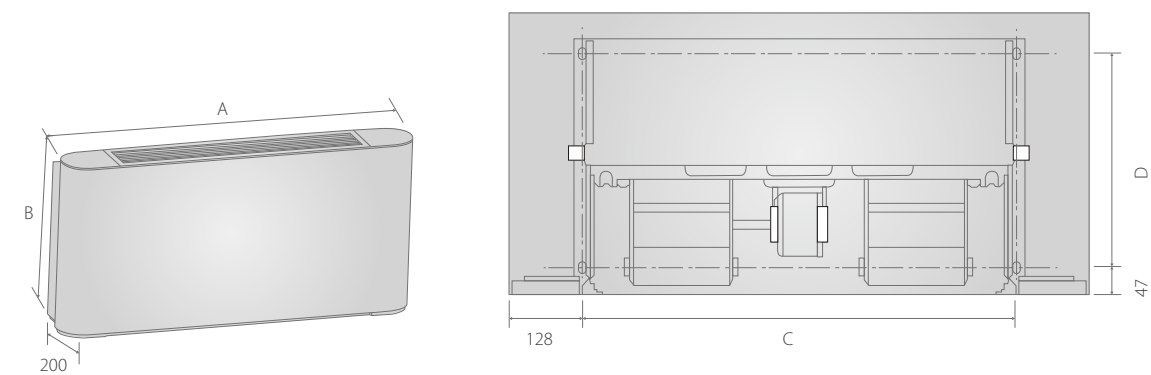
Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7 °C , leaving water 12 °C , Entering air temperature 27 °C DB/19 °C WB.
Heating conditions: Entering water 65 °C , leaving water 55 °C , Entering air temperature 20 °C DB/15 °C WB.
3. Noise is tested in a reverberation chamber.

Model			NFF3-V150-4-4P	NFF3-V250-4-4P	NFF3-V350-4-4P	NFF3-V500-4-4P	NFF3-V700-4-4P	NFF3-V800-4-4P
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m³/h	255/206/134	425/280/158	595/461/324	800/595/417	1190/887/564	1300/969/661
		CFM	150/121/79	250/165/93	350/271/191	471/350/245	700/522/332	765/570/389
External static pressure		Pa	12					
Cooling	Sensible Capacity(H/M/L)	kW	1.30/1.07/0.64	1.90/1.30/0.70	2.80/2.30/1.61	3.50/2.75/2.01	4.80/3.88/2.53	5.90/4.60/3.30
	Capacity (H/M/L)	kW	1.70/1.44/0.95	2.70/1.94/1.10	3.80/3.18/2.32	4.60/3.75/2.83	6.05/5.00/3.43	7.65/6.19/4.54
	Water flow rate	m³/h	0.29/0.25/0.16	0.46/0.33/0.19	0.65/0.55/0.40	0.79/0.64/0.49	1.04/0.86/0.59	1.31/1.06/0.78
	Water pressure drop	kPa	18.16/13.74/7.50	16.97/9.73/3.51	39.17/28.35/16.91	56.18/39.04/23.84	53.66/36.96/19.07	48.07/32.56/18.32
Heating	Capacity (H/M/L)	kW	1.40/1.23/0.95	2.30/1.78/1.22	2.88/2.49/2.00	3.35/2.88/2.36	4.60/3.95/3.02	7.50/6.44/5.22
	Water flow rate	m³/h	0.12/0.11/0.08	0.20/0.15/0.10	0.25/0.21/0.17	0.29/0.25/0.20	0.39/0.34/0.26	0.64/0.55/0.45
	Water pressure drop	kPa	10.74/8.50/5.49	28.16/18.45/10.08	55.37/43.00/29.20	69.57/54.65/38.21	132.32/104.19/63.73	71.63/56.17/37.44
Power input (H/M/L)		W	20/14/9	20/11/8	29/17/11	52/28/15	92/46/19	102/49/22
Rated current		A	0.21	0.22	0.28	0.51	0.79	0.87
Sound power level		(H/M/L) dB(A)	52/46/38	46/37/29	52/45/36	59/51/43	62/56/46	63/57/47
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	2	2	2	3	3
Coil	Row		4	4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94	Ø7.94
Body	Net dimensions (WxHxD)	mm	637x455x200	867x455x200	1087x455x200	1087x455x200	1207x455x200	1207x550x200
	Packing size (WxHxD)	mm	895x595x300	1125x595x300	1345x595x300	1345x595x300	1465x595x300	1465x695x300
	Net weight	kg	12.6	15.3	18.7	18.7	21.3	24.8
	Gross weight	kg	16.9	20.8	25.4	25.4	28.1	31.9
Water inlet/outlet pipe		inch	Cold water: G3/4; Hot water: G1/2					
Drain pipe		mm	ODØ18.5					

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C , leaving water 12°C , Entering air temperature 27°C DB/19°C WB.
Heating conditions: Entering water 65°C , leaving water 55°C , Entering air temperature 20°C DB/15°C WB.
3. Noise is tested in a reverberation chamber.
4. F3 series test with concealed tooling.

2nd generation Ceiling&Floor

Dimensions (unit: mm)



Model	150	250	300	500	700	800
A(mm)	790	1020	1240	1240	1360	1360
B(mm)	495	495	495	495	495	591
C(mm)	534	764	984	984	1104	1104
D(mm)	375	375	375	375	375	319
E(mm)	123	123	123	123	123	219
F(mm)	93	93	93	93	93	102
G(mm)	628	858	1078	1078	1198	1198
H(mm)	455	455	455	455	455	551