

NVFC Fan Coil

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A fan coil unit (NVFC), is a simple device consisting of a heating and/or cooling heat exchanger or 'coil' and fan. It is part of an HVAC system found in residential, commercial, and industrial buildings. A fan coil unit is a diverse device sometimes using ductwork, and is used to control the temperature in the space where it is installed, or serve multiple spaces. It is controlled either by a manual on/off switch or by a thermostat, which controls the throughput of water to the heat exchanger using a control valve and/or the fan speed.

Due to their simplicity and flexibility, fan coil units can be more economical to install than ducted 100% fresh air systems (VAV) or central heating systems with air handling units or chilled beams. Various unit configurations are available, including horizontal (ceiling mounted) or vertical (floor mounted).

1. Ceiling Mounted (High Static Pressure):

Model	NVFC 10H	NVFC 12H	NVFC 20H	NVFC 30H
Cooling capacity 7/12 (kW)	7	8.5	14	20
Heating capacity 80/60 (kW)	11	15	20	26
Air flow (High Speed) (m ³ / h)	1000	1200	2000	3000
Air flow (Medium Speed) (m ³ / h)	800	1000	1500	2200
Air flow (Low Speed) (m ³ / h)	600	800	1200	1500
Fan Pressure (Pa)	75	75	75	90
Sound pressure level (High) (dAB)	45	45	45	45
Sound pressure level (Medium) (dAB)	40	40	40	40
Sound pressure level (Low) (dAB)	35	35	35	35
Pipe connection inlet (in)	3/4	1	1 1/4	1 1/2
Pipe connection outlet (in)	3/4	1	1 1/4	1 1/2
Pipe connection drain (in)	3/4	3/4	3/4	3/4
Fan power (W)	180	200	400	600



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2. Ceiling Mounted (Medium Static Pressure):



Model	NVFC 22M	NVFC 28M	NVFC 36M	NVFC 45M	NVFC 56M	NVFC 71M
Cooling capacity 7/12 (kW)	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity 80/60 (kW)	2.8	3.6	4.5	5.6	7.1	9
Air flow (High Speed) (m ³ / h)	500	600	700	800	900	1.200
Air flow (Medium Speed) (m ³ / h)	400	500	600	700	800	900
Air flow (Low Speed) (m ³ / h)	300	400	500	600	700	800
Fan Pressure (Pa)	30	30	30	30	30	30
Sound pressure level (High) (dAB)	40	40	40	40	40	40
Sound pressure level (Medium) (dAB)	37	37	37	37	37	37
Sound pressure level (Low) (dAB)	34	34	34	34	34	34
Pipe connection inlet (in)	3/4	3/4	3/4	3/4	1	1
Pipe connection outlet (in)	3/4	3/4	3/4	3/4	1	1
Pipe connection drain (in)	3/4	3/4	3/4	3/4	3/4	3/4
Fan power (W)	80	80	160	160	160	240

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3. Floor Mounted :

Model	NVFC 22F	NVFC 28F	NVFC 36F	NVFC 45F	NVFC 56F	NVFC 71F
Cooling capacity 7/12 (kW)	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity 80/60 (kW)	2.8	3.6	4.5	5.6	7.1	9
Air flow (High Speed) (m ³ / h)	500	600	700	800	900	1.200
Air flow (Medium Speed) (m ³ / h)	400	500	600	700	800	900
Air flow (Low Speed) (m ³ / h)	300	400	500	600	700	800
Fan Pressure (Pa)	30	30	30	30	30	30
Sound pressure level (High) (dAB)	40	40	40	40	40	40
Sound pressure level (Medium) (dAB)	37	37	37	37	37	37
Sound pressure level (Low) (dAB)	34	34	34	34	34	34
Pipe connection inlet (in)	3/4	3/4	3/4	3/4	1	1
Pipe connection outlet (in)	3/4	3/4	3/4	3/4	1	1
Pipe connection drain (in)	3/4	3/4	3/4	3/4	3/4	3/4
Fan power (W)	80	80	160	160	160	240

