

## NFT-NFC 102÷703



## Residential fan-coils with cabinet or concealed version

0,86 - 16,4 kW

### Unit Description

NFT and NFC belong to residential fan coil range by Climaveneta. The NFT incorporate a low noise cross-flow fan and are designed for the residential market, while the NFC have a centrifugal fan that provide the greater capacity needed for the small and medium size tertiary market. Both models in their standard versions are supplied without control (universal). NFT-NFC participate to EUROVENT certification programme.

### Commands

#### CB controller Plug In

Off/summer/winter selector switch. Three speed air flow control. Coil temperature sensor. Automatic ON/OFF duct control.

#### CP controller Plug In

Off/summer/winter selector switch. Three speed air flow control. Coil temperature sensor. Automatic ON/OFF valve control.

#### CT controller Plug In

Off/summer/winter selector switch. Room temperature control. Room temperature sensor. Coil temperature sensor. Three speed air flow control. Continuous fan speed. Available infrared remote control.

#### CE PWM and CE controller Plug In

Off/summer/winter/auto selector switch. Room temperature control. Room temperature sensor. Coil temperature sensor. Three speed air flow control + auto. Automatic summer/winter switching. Automatic ON/OFF valve control. Continuous fan speed. Window sensor. Available infrared remote control. PWM valve unit control.

#### PRH wall controller

ON/OFF switch with selector for 3 fan speeds.

#### PSH wall controller

Thermostat, summer/winter switch.

#### PTH wall controller

ON/OFF/summer/winter switch, resistor switch, thermostat, switch for 3 fan speeds.

#### PTH2 wall controller

ON/OFF/summer/winter switch, resistor switch, thermostat, switch for 3 fan speeds, auxiliary controls.

#### PCT wall controller

Off/summer/winter selector switch. Room temperature control. Room temperature sensor. Coil temperature sensor. Three speed air flow control. Continuous fan speed. Window sensor. Available infrared remote control.

#### PCE and PCE PWM wall controller

Off/summer/winter/auto selector switch. Room temperature control. Room temperature sensor. Coil temperature sensor. Three speed air flow control + Auto. Automatic summer/winter switching. Automatic ON/OFF valve control. Continuous fan speed. Window sensor. Available infrared remote control. PWM valve unit control.

### Versions

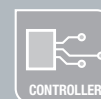
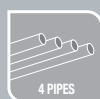
NFT U	With cabinet universal (without control) for vertical and horizontal installation with tangential fan
NFC U	With cabinet universal (without control) for vertical and horizontal installation with centrifugal fan
NFT I	Built-in (without control) for vertical and horizontal installation with tangential fan

### Features

Plastic air intake and outlet grille;  
 Very low noise fan unit;  
 6-speed autotransformer;  
 Air filter on all models;  
 Cabinet in galvanised epoxy powder coated steel for maximum resistance to rust;  
 Automatically closing flap to cover and protect electric controls from dripping water (in conformity with directive 60335-2-40);  
 Lockable control covers;  
 Plug-in controls fixing bracket;

### Main accessories

- Pair of decorative and structural feet
- Air intake grille kit with version cover
- IR receiver for CE comand with remote control
- Interface SPB Kit
- Rear panel for vertical housing
- Horizontal and vertical fan coil auxiliary tray
- Hose kit
- In-line delivery plenum kit
- Front air intake plenum for built-in version
- Manual external air intake lock kit
- Main coil valve unit ON/OFF, PWM
- Additional coil valve unit ON/OFF, PWM



## NFT U

Models		102	202	302	402	502	603
<b>Air flow rate</b>							
Max speed	m3/h	310	310	410	410	590	610
Med speed	m3/h	250	250	330	330	450	470
Min speed	m3/h	175	175	250	250	300	320
<b>Total output cooling capacity(1)</b>							
Max speed (1)	kW	0,86	1,51	2,02	2,51	3,4	4,25
Med speed(1)	kW	0,62	1,18	1,7	2	2,75	3,5
Min speed(1)	kW	0,49	0,85	1,35	1,63	1,95	2,4
<b>Sensitive output cooling capacity(1)</b>							
Max speed (1)	kW	0,8	1,22	1,67	1,97	2,65	3,32
Med speed(1)	kW	0,56	0,92	1,36	1,52	2,05	2,65
Min speed(1)	kW	0,4	0,67	1,05	1,23	1,4	1,75
Max Water flow(1)	l/h	147	259	346	430	580	730
Max Pressure drop(1)	kPa	10,6	9	24,5	27,1	28	25,6
<b>Total output heating capacity(2)</b>							
Max speed (2)	kW	2,3	3,5	4,6	5,7	7	9,5
Med speed(2)	kW	1,9	3	3,8	4,5	5,8	7,2
Min speed(2)	kW	1,42	2,2	3	3,6	4,5	5,5
Max Water flow(2)	l/h	200	307	404	499	614	830
Max Pressure drop(2)	kPa	3	3	9	13	16	14
<b>Total output heating capacity(3)</b>							
Max speed (3)	kW	1,25	1,95	2,6	2,86	4,2	5,26
Med speed(3)	kW	0,97	1,6	2,3	2,35	3,3	4,23
Min speed(3)	kW	0,8	1,3	1,8	1,94	2,5	2,91
Water flow Max(3)	l/h	147	259	346	430	580	730
Pressure drop Max(3)	kPa	10,4	8,2	22,9	24,9	27	17
<b>Output supplementary coil(2)</b>							
Max speed (2)	kW	2,1	2,1	2,7	2,9	3,3	3,8
Water flow Max(2)	l/h	180	180	240	250	310	330
Pressure drop Max(2)	kPa	3	3	9	10	11	13
<b>Sound pressure level(4)</b>							
Max speed (4)	dB(A)	37	41	41	41	48	48
Med speed(4)	dB(A)	30	34	33	37	36	45
Min speed(4)	dB(A)	30	25	23	24	33	29
<b>Sound power(4)</b>							
Max speed (4)	dB(A)	48	52	52	52	59	59
Med speed(4)	dB(A)	41	45	44	48	47	56
Min speed(4)	dB(A)	41	36	34	35	44	40
<b>Fan</b>							
		Tangential	Tangential	Tangential	Tangential	Tangential	Tangential
Water IN connection	inch	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female
Water OUT connection	inch	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female
Max absorbed power	W	48	50	58	58	68	68
Max absorbed current	A	0,23	0,24	0,25	0,25	0,35	0,35
Electrical power supply	V-Ph-Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
<b>DIMENSION</b>							
<b>With Cabinet</b>							
L	(mm)	720	720	910	910	1100	1100
H	(mm)	535	535	535	535	535	535
P	(mm)	200	200	200	200	200	200
Weight	kg	18	19	22	23	25	27

Data referred to

1 Operation in cooling mode: room temperature 27°C d.b./19°C w.b., chilled water at inlet 7°C and at outlet 12°C

2 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 70°C and at outlet 60°C

3 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 50°C, with identical flow rate that in the cooling mode

4 Noise level measured at 1 m in open field conditions

## NFC U

Models		602	603	702	703
Air flow rate					
Max speed	m3/h	860	860	1400	1400
Med speed	m3/h	640	640	1100	1100
Min speed	m3/h	440	440	800	800
Total output cooling capacity(1)					
Max speed (1)	kW	3,64	5,25	6,37	7,89
Med speed(1)	kW	3,01	4,32	4,82	5,71
Min speed(1)	kW	2,3	3,2	3,48	4,58
Sensitive output cooling capacity(1)					
Max speed (1)	kW	3,11	4,06	5,08	6,1
Med speed(1)	kW	2,3	3,06	3,61	4,49
Min speed(1)	kW	1,46	1,97	2,47	3,25
Max Water flow(1)	l/h	624	899	1091	1357
Max Pressure drop(1)	kPa	14	29,2	18,3	36
Total output heating capacity(2)					
Max speed (2)	kW	7,29	10,19	12,63	16,38
Med speed(2)	kW	5,98	8,1	10,6	13,56
Min speed(2)	kW	4,5	5,94	4,81	10,5
Max Water flow(2)	l/h	640	894	1110	1435
Max Pressure drop(2)	kPa	11	30	21	31
Total output heating capacity(3)					
Max speed (3)	kW	3,65	5,03	6,19	9,79
Med speed(3)	kW	2,92	4,24	4,79	8,24
Min speed(3)	kW	1,97	2,81	3,38	6,3
Water flow Max(3)	l/h	624	899	1091	1357
Pressure drop Max(3)	kPa	14	25,2	31	30
Output supplementary coil(2)					
Max speed (2)	kW	4,9	4,9	7	7
Water flow Max(2)	l/h	429	429	617	617
Pressure drop Max(2)	kPa	3	3	7	7
Sound pressure level(4)					
Max speed (4)	dB(A)	50	51	53	54
Med speed(4)	dB(A)	42	43	46	48
Min speed(4)	dB(A)	33	34	36	38
Sound power(4)					
Max speed (4)	dB(A)	61	62	64	65
Med speed(4)	dB(A)	53	54	57	59
Min speed(4)	dB(A)	44	45	47	49
Fan					
Water IN connection	inch	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female
Water OUT connection	inch	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female
Max absorbed power	W	150	150	165	177
Max absorbed current	A	0,7	0,7	0,73	0,77
Electrical power supply	V-Ph-Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
DIMENSION					
With Cabinet					
L	(mm)	1100	1100	1290	1290
H	(mm)	535	535	535	535
P	(mm)	230	230	230	230
Weight	kg	32	33	38	39

Data referred to

1 Operation in cooling mode: room temperature 27°C d.b./19°C w.b., chilled water at inlet 7°C and at outlet 12°C

2 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 70°C and at outlet 60°C

3 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 50°C, with identical flow rate that in the cooling mode

4 Noise level measured at 1 m in open field conditions

## NFT I

Models		102	202	302	402	502	603
<b>Air flow rate</b>							
Max speed	m3/h	310	310	410	410	590	610
Med speed	m3/h	250	250	330	330	450	470
Min speed	m3/h	175	175	250	250	300	320
<b>Total output cooling capacity(1)</b>							
Max speed (1)	kW	0,86	1,51	2,02	2,51	3,4	4,25
Med speed(1)	kW	0,62	1,18	1,7	2	2,75	3,5
Min speed(1)	kW	0,49	0,85	1,35	1,63	1,95	2,4
<b>Sensitive output cooling capacity(1)</b>							
Max speed (1)	kW	0,8	1,22	1,67	1,97	2,65	3,32
Med speed(1)	kW	0,56	0,92	1,36	1,52	2,05	2,65
Min speed(1)	kW	0,4	0,67	1,05	1,23	1,4	1,75
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Max Pressure drop(1)	kPa	10,6	9	24,5	27,1	28	25,6
<b>Total output heating capacity(2)</b>							
Max speed (2)	kW	2,3	3,5	4,6	5,7	7	9,5
Med speed(2)	kW	1,9	3	3,8	4,5	5,8	7,2
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Max Water flow(2)	l/h	200	307	404	499	614	830
Max Pressure drop(2)	kPa	3	3	9	13	16	14
<b>Total output heating capacity(3)</b>							
Max speed (3)	kW	1,25	1,95	2,6	2,86	4,2	5,26
Med speed(3)	kW	0,97	1,6	2,3	2,35	3,3	4,23
Min speed(3)	kW	0,8	1,3	1,8	1,94	2,5	2,91
Water flow Max(3)	l/h	147	259	346	430	580	730
Pressure drop Max(3)	kPa	10,4	8,2	22,9	24,9	27	17
<b>Output supplementary coil(2)</b>							
Max speed (2)	kW	2,1	2,1	2,7	2,9	3,3	3,8
Water flow Max(2)	l/h	180	180	240	250	310	330
Pressure drop Max(2)	kPa	3	3	9	10	11	13
<b>Sound pressure level(4)</b>							
Max speed (4)	dB(A)	37	41	41	41	48	48
Med speed(4)	dB(A)	30	34	33	37	36	45
Min speed(4)	dB(A)	30	25	23	24	33	29
<b>Sound power(4)</b>							
Max speed (4)	dB(A)	48	52	52	52	59	59
Med speed(4)	dB(A)	41	45	44	48	47	56
Min speed(4)	dB(A)	41	36	34	35	44	40
<b>Fan</b>							
Water IN connection	inch	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female
Water OUT connection	inch	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female	1/2" (GAS) female
Max absorbed power	W	48	50	58	58	68	68
Max absorbed current	A	0,23	0,24	0,25	0,25	0,35	0,35
Electrical power supply	V-Ph-Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
<b>DIMENSION</b>							
<b>Built-in</b>							
L	(mm)	545	545	735	735	925	925
H	(mm)	503	503	503	503	503	503
P	(mm)	195	195	195	195	195	195
Weight	kg	13	14	15	16	18	20

Data referred to

1 Operation in cooling mode: room temperature 27°C d.b./19°C w.b., chilled water at inlet 7°C and at outlet 12°C

2 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 70°C and at outlet 60°C

3 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 50°C, with identical flow rate that in the cooling mode

4 Noise level measured at 1 m in open field conditions

Dimension

