



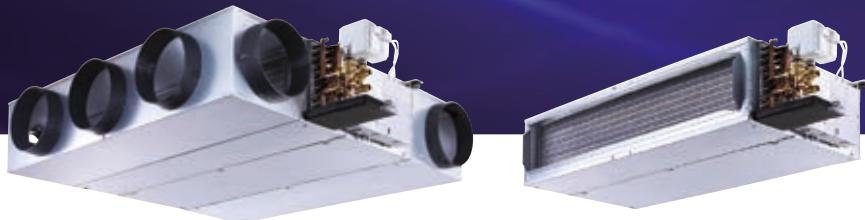
D E S I G N I N G I N N O V A T I V E S O L U T I O N S

United Technologies

AIR CONDITIONING & HEATING SOLUTIONS

SIMPLICITY **OR** FULL MODULARITY ?

IDROFAN, BECAUSE YOU SHOULD NOT HAVE TO CHOOSE.



Hydronic ducted fan coils

Cooling capacity 0.6 kW - 12 kW
Heating capacity 0.8 kW - 17 kW

42NL & 42NH

IDROFAN®

Carrier solutions based on **experience and expertise**

Carrier Legacy

Since Willis Carrier developed the world's first modern air conditioning system in 1902, Carrier teams have been designing solutions tailored to each customer's requirements. Over time, Carrier has been recognised as a pioneer in the design and manufacture of heating, ventilation and air conditioning (HVAC) solutions with sustainable performance and, equally important, for its commitment to first class service.



Carrier Commitment

■ Quality

Carrier quality and reliability are incorporated and guaranteed in all products and systems. Products undergo extensive tests before delivery and are certified by internal organisations to ensure the highest levels of safety and quality.

■ Sustainability

Carrier continuously works to improve the environmental performance of its products and services, operations and its culture to help lead the way to environmental sustainability. Sustainability is a growing concern to the building sector and a key factor for building owners and operators. A high-efficiency air conditioning system with a low carbon footprint is a must to support green building design.

■ Performance

Carrier strives for continuous growth to reinforce its leadership position, continuously improving the productivity and quality of its assets and resources.

■ Service Excellence

The Carrier Service delivery model maintains a reputation for high customer satisfaction and delivers service excellence with strong communication channels, the top technicians in the industry, continuous improvement of contracts and a highly experienced management team.

■ Innovation

Carrier is a company of ideas, committed to research and development, whose founder still inspires the company to reach the next innovative, powerful and marketable idea. AdvanTE³C, a global group of Experts in Efficiency and Environment, supports customers around the world in developing strategic, energy-efficient and custom-engineered building solutions.

■ Expertise

Carrier delivers global solutions across the broadest range of air conditioning, ventilation and heating applications. With a proven track record of leadership and industry expertise, Carrier provides a portfolio of market-leading products and services.

SIMPLICITY

The simplicity of the range for easy use

■ Industry standard

With an installed base of more than a million units, **the Idrofan range has become the standard in the fan coil cooling market.** The quality and reliability of the equipment is backed by Carrier's recognised expertise in services. Its high quality design has been developed thanks to the company's experience in the field and its performance is validated by Eurovent certification.

THE STANDARD
IN INDIVIDUAL
COMFORT AIR
CONDITIONING
SOLUTIONS

■ Versatility

The 42NL & 42NH wide range can meet every need. It offers either low or high external static pressure capability and is available in a wide choice of plenums and spigot diameters. It meets customer demands in terms of both heating and cooling capacity (from 0.5 to 10 kW) and noise levels.

ONE PRODUCT
FOR MANY
APPLICATIONS

■ Serviceability

The 42NL & 42NH units are designed for easy installation, in any type of false ceiling in hotel, office, shop or restaurant applications. The units offer direct access to air filter, water coil, drain pan and fan motor assembly, for easy maintenance and compliance with local hygiene regulations.

EASY
INSTALLATION
IN MANY
CONFIGURATIONS

&

FULL MODULARITY

The right choice for all applications

■ Modular design

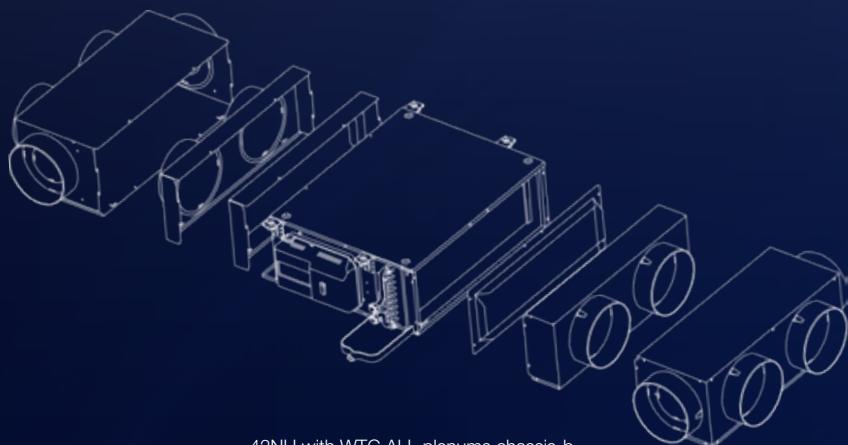
Due to a large range of air distribution solutions (rectangular flanges, compact or large plenums, multiple spigots...), sizes and control solutions, **the 42NL & 42NH are designed to adapt to all room sizes and configurations.**

■ Silent solutions

With its acoustic insulation and very low noise fan motor, the 42NL & 42NH range makes silent operation a reality. Its Low Energy Consumption (LEC) motor with variable fan speed control ensures improved noise comfort levels compared to a multi-speed motor - the airflow is automatically adjusted, from 0 to 100%, in order to perfectly meet the occupants' needs. With a Carrier Water Terminal Controller (WTC), maximum fan speed can also be limited to enhance sound level management even further.

■ Intelligence

The 42NL & 42NH range ensures optimum operations through a wide range of smart controllers, including electronic thermostats, the Network Terminal Controller (NTC) Aquasmart® and the new WTC, which manages water valve and fan speed simultaneously **for minimum energy consumption and maximum comfort.** Other smart WTC options include an automatic balancing water valve and a motorised fresh air valve with a CO₂ sensor for optimum air quality.



42NH with WTC ALL plenums chassis-b

Technical Insight

Hydronic ducted fan coil

42NL & 42NH

42NH with plenum outlet and inlet configuration



Control solutions

- Thermostat electronic
- NTC Aquasmart®
- WTC controller BACnet & LON

Large choice
of plenums and spigots



Electrical heater



Fan motor

- AC multi-speed motor
(5 to 6 speeds)
- LEC variable-speed
EC motor

Filter solutions

- G1 (standard)
- G3
- M5 (for higher indoor air quality)

AUTOMATIC HYDRAULIC BALANCING WATER VALVE

The automatic hydraulic balancing water valve is a cutting-edge new feature. With its integrated differential pressure controller it **prevents pressure fluctuations and ensures constant cooling or heating capacities**. With easy presetting of volumetric flow and straightforward assembly, the water valve allows **simplified mounting, commissioning and hydraulic balancing**.



- ① Control valve actuator
- ② Infinite presetting of required maximum volumetric flow
- ③ Integrated differential pressure controller
- ④ Pressure test points

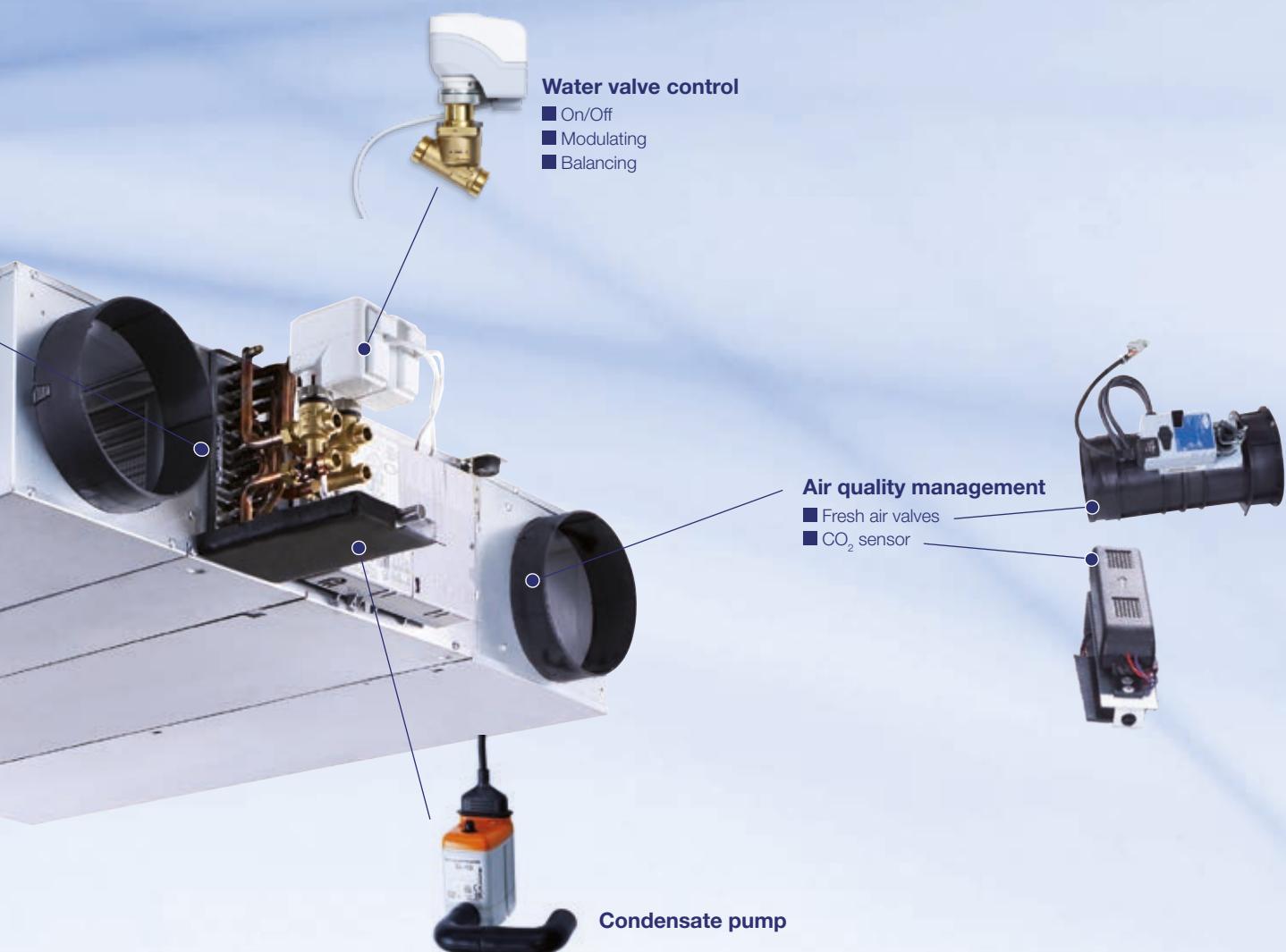
KEY FEATURES

■ **Large choice of air distribution configuration:** free return/supply, rectangular flanges, compact or large return/supply plenums, "U" configuration together with multiple spigot sizes.

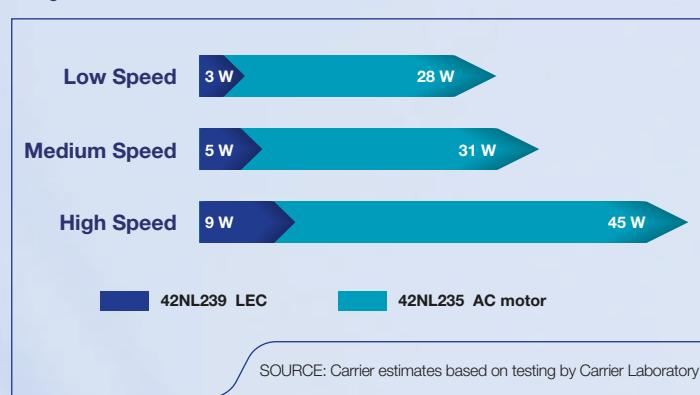
■ **Improved acoustic comfort:** automatic air flow adjustment from 0 to 100% allows better sound level management.

■ **Easy maintenance:** direct access to air filter, water coil, drain pan and fan motor assembly.

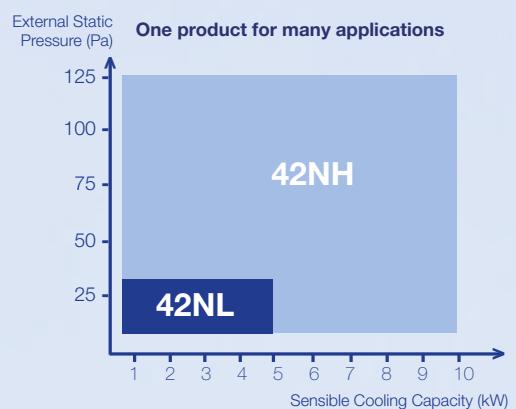
■ **Large controller range:** electronic thermostats, NTC AquaSmart and WTC controller.



■ **Energy savings:** the optional low energy consumption (LEC) brushless EC motor reduces fan coil energy consumption by up to 50%, compared to an AC motor, making it easier to meet the new building energy management regulations.



■ **Modularity:** With two available versions, the fancoil is able to address all applications. The 42NL version is optimised for simple soffit installations while the 42NH is optimised for air return & supply ducted installations.



Specific solutions for specific needs

Office



■ Load variation adaptability

Conditions inside buildings change as a result of many factors including the time of the day and occupancy. Carrier solutions, equipped with precise electronic capacity controls and variable speed motors, adapt to meet load variations in just a few seconds, assuring exceptional comfort and in turn ensuring optimised energy consumption.



Hotel



■ Low noise features (night mode)

Air conditioning, ventilation and heating (depending on the region and season) are among the first things guests experience. The 42NL & 42NH range offers low noise performance to ensure a quiet and comfortable environment for hotel guests and visitors.



Hospital



■ Air quality

The 42NL & 42NH range can help to ensure and maintain a highly controlled microclimate, regulating temperature and humidity levels, as well as ensuring optimal indoor air quality (filtration efficiency levels, management of CO₂ levels).



Shops and restaurants



■ Space volume flexibility

Available in large sizes and high power configurations, the 42NL & 42NH range offers flexible solutions for managing a large space with a limited number of units.

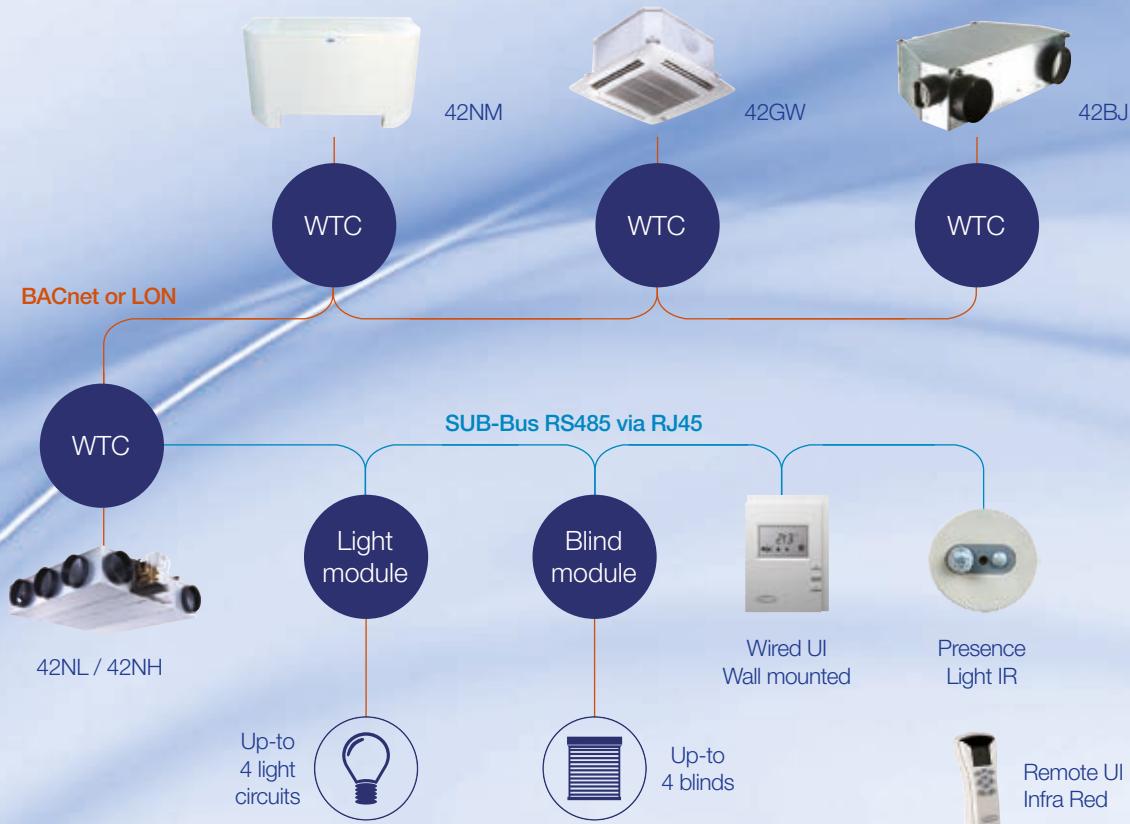
Water Terminal Controller

Best-in-class control solutions

With Carrier's specific control algorithms, the Water Terminal Controller (WTC) combines best-in-class comfort solutions together with high energy efficiency management.

Designed for a variety of configurations and offered in a wide range of user interfaces, the WTC can fit every application and every need.

A variety of configurations for every application



FEATURES AND ADVANTAGES

- High efficiency:** The WTC's energy saving algorithms control fan speed and manage water valve operation in parallel, achieving optimal energy consumption whilst ensuring there is no resulting loss in comfort for occupants.
- Easy installation:** The WTC is compatible with the full Carrier fan coil range. For customers and installers the same controller simplifies and eases installation and service operations whilst covering a wide range of hydronic system types and applications. The WTC is factory installed on the terminal fan coil before factory testing of each individual terminal. As a result, field installation is extremely simple.
- Variety of configurations:** The controller can operate as either a standalone control, command and follow function for open spaces, or at the heart of a building management system.
- User friendly user interface:** The user interface is available in a variety of configurations: no display, LCD display, temperature sensor, lights & blind control, etc.

ADVANCED OPTIONS

- Low Energy Consumption (LEC) variable speed control:** The WTC can drive the fan speed continuously within a configurable range for optimal thermal and acoustic comfort.
- Modulating hydronic control:** The WTC controls both floating and fixed-point value actuator types (230 V on-off and 230 V three point).
- Demand controller ventilation (DCV) & IAQ management:** On fan coils equipped with CO₂ sensors and fresh air dampers, the WTC can adjust the amount of fresh air admitted to the room, as required by the occupants.
- Lights and blind management modules:** The WTC supervises the interconnection of light modules & blinds modules, allowing the user to improve local comfort control with the same user interface as HVAC system.

A range of user interfaces to meet all needs

	Room Control Interface			Infrared Remote Interface	
	WTC-RCI-S	WTC-RCI-SF/SOF	WTC-RCI-D/ DC/DM/DCM	WTC-IR	WTC-IR-LB
TEMPERATURE SENSOR	✓	✓	✓		
SETPOINT OFFSET		✓	✓	✓	✓
FAN SPEED	✓	✓	✓	✓	✓
WITH OR WITHOUT OCCUPANCY FUNCTION		✓	✓	✓	✓
OPERATING MODE		✓	✓	✓	✓
LIGHT & BLIND CONTROL			✓		✓
POWER SUPPLY FROM WTC	✓	✓	✓		
QUICK CONNECTION	RJ45	RJ45	RJ45		
LOCAL SERVICE TOOL			✓		
WITH OR WITHOUT MOTION SENSOR			✓		
LCD DISPLAY			✓	✓	✓
INFRARED RECEIVER WITH STATUS (LED & BUZZER)				✓	
INFRARED RECEIVER					✓

Physical data



42NH (AC version*)			225			235			325			335			425			435				
	R5	R2	R1	R5	R2	R1	R4	R3	R2	R4	R3	R2	R5	R4	R3	R5	R4	R3				
	(L)	(M)	(H)																			
FAN SPEED																						
AIR FLOW	m³/h	81	228	272	81	228	272	284	366	471	284	366	471	375	537	650	375	537	650			
AVAILABLE STATIC PRESSURE	Pa	6	50	71	6	50	71	30	50	83	30	50	83	24	50	73	24	50	73			
COOLING MODE, TWO PIPES**																						
TOTAL COOLING CAPACITY	kW	0.48	1.22	1.42	0.54	1.42	1.66	1.27	1.55	1.87	1.57	1.98	2.48	1.93	2.65	3.08	2.12	3.10	3.73			
SENSIBLE COOLING CAPACITY	kW	0.37	0.97	1.14	0.40	1.08	1.28	1.06	1.31	1.61	1.22	1.55	1.96	1.56	2.17	2.55	1.67	2.42	2.93			
WATER PRESSURE DROP	kPa	3.6	17.9	23.3	3.4	13.7	18.2	9.6	13.6	19.1	9	15	23	10.5	18.5	23.9	12.8	25.6	35.3			
HEATING MODE, TWO PIPES***																						
HEATING CAPACITY	kW	0.57	1.47	1.71	0.62	1.67	1.96	1.87	2.30	2.77	2.11	2.66	3.30	2.38	3.40	4.07	2.53	3.64	4.39			
WATER PRESSURE DROP	kPa	4.5	19.6	25.2	3.3	15.4	20	14	19.6	26.9	13.9	20.3	29.2	12.5	22.4	30.2	15.2	27.8	38.2			
COOLING MODE, FOUR PIPES**																						
TOTAL COOLING CAPACITY	kW		NA		0.44	1.07	1.24				1.58	1.94	2.34				2.01	2.75	3.21			
SENSIBLE COOLING CAPACITY	kW		NA		0.36	0.90	1.06				1.21	1.51	1.86				1.61	2.23	2.63			
WATER PRESSURE DROP	kPa		NA		2.3	5.9	7.6				14.5	21	28.6				14.3	24.9	32.1			
HEATING MODE, FOUR PIPES****																						
HEATING CAPACITY	kW		NA		0.68	1.72	1.98				NA		2.32	2.81	3.31			2.53	3.68	4.42		
WATER PRESSURE DROP	kPa		NA		1.8	5.2	6.4				NA		10.2	13.8	18			13.1	24.3	33.2		
ELECTRIC HEATER																						
MAXIMUM CAPACITY	W	1000		1000				1600		1600				2000			2000					
SOUND LEVELS																						
Sound power level (return and radiated) dB(A)	32	49	53	32	49	53	45	49	56	45	49	56	43	51	55	43	51	55				
Sound power level (supply) dB(A)	31	47	50	31	47	50	48	54	61	48	54	61	47	54	58	47	54	58				
ELECTRICAL DATA, MOTOR																						
POWER INPUT	W	13	43	44	13	43	44	126	146	168	126	146	168	83	91	97	83	91	97			
DIMENSIONS (BASE UNIT)																						
H X L X L	mm	235	X	520	X	680				235	X	520	X	850				235	X	520	X	1050

42NH (AC version*)			525			535			545			635			645			735			745															
	R5	R4	R3	R5	R4	R3	R5	R4	R3	R4	R3	R2	R1	R4	R3	R2	R1	R3	R2	R1																
	(L)	(M)	(H)	(L)	(M)	(H)	(L)	(M)	(H)	(L)	(M)	(H)	(L)	(M)	(H)	(L)	(M)	(H)	(L)	(M)	(H)															
FAN SPEED																																				
AIR FLOW	m³/h	767	863	924	767	863	924	767	863	925	1072	1428	1657	1072	1428	1657	1346	1918	2161	1346	1918	2161														
AVAILABLE STATIC PRESSURE	Pa	40	50	57	40	50	57	40	50	57	28	50	67	28	50	67	25	50	63	25	50	63														
COOLING MODE, TWO PIPES**																																				
TOTAL COOLING CAPACITY	kW	3.52	3.84	4.03	4.33	4.77	5.05				NA			5.81	7.31	8.08	6.80	8.62	9.52	7.62	9.97	10.76	8.52	11.32	12.25											
SENSIBLE COOLING CAPACITY	kW	2.94	3.23	3.41	3.41	3.79	4.02				NA			4.62	5.94	6.67	5.14	6.65	7.49	5.92	7.98	8.72	6.41	8.75	9.60											
WATER PRESSURE DROP	kPa	28.5	32.3	35	38.2	45.3	49.6				NA			24	35	41.3	25	38.6	45.1	42.5	66.4	75.8	41.8	66.2	75.9											
HEATING MODE, TWO PIPES***														NA			7.59	9.76	11.00	8.21	10.59	11.92	9.03	12.49	13.86	9.55	13.38	14.88								
HEATING CAPACITY	kW	4.72	5.19	5.47	5.00	5.53	5.84				NA			29.7	45.6	56	28.1	43.4	53.1	44.7	78.2	93.7	39.5	70.5	84.8											
WATER PRESSURE DROP	kPa	36.5	43	47.1	45	53.4	58.7				NA																									
COOLING MODE, FOUR PIPES**														NA			3.99	4.40	4.66	NA			5.38	6.63	7.22	6.29	8.28	8.99	8.11	10.46	11.18					
TOTAL COOLING CAPACITY	kW		NA		3.59	3.93	4.13	3.99	4.40	4.66				NA			4.40	5.56	6.18	NA			5.16	6.96	7.61	6.18	8.25	8.96								
SENSIBLE COOLING CAPACITY	kW		NA		2.96	3.25	3.43	3.23	3.58	3.81				NA			20.9	29.9	34.4	NA			36	56.8	65.6	47.6	72.9	81.9								
WATER PRESSURE DROP	kPa		NA		30.6	35.5	38.7	32.8	38.9	43				NA						NA			6.79	8.05	8.57	8.43	11.16	12.13	10.54	13.74	14.80					
HEATING MODE, FOUR PIPES****														NA			4.67	10.8	14.2	NA			6.79	8.05	8.57	8.43	11.16	12.13	10.54	13.74	14.80					
HEATING CAPACITY	kW		NA		3.89	4.21	4.41	4.67	5.10	5.34				NA			10.8	12.4	13.4	NA			10.8	14.2	15.7	18.5	29.7	34.3	23.6	36.9	41.9					
WATER PRESSURE DROP	kPa		NA		8.7	9.9	10.6	10.8	12.4	13.4				NA						NA																
ELECTRIC HEATER														2000			NA			3200			2000			3200			3200							
MAXIMUM CAPACITY	W	230V ±10%	- 1PH - 50Hz		2000						NA			3200			2000			3200			3200			3200			3200							
SOUND LEVELS																																				
Sound power level (return and radiated) dB(A)	55	56	57	55	56	57	55	56	57	55	59	56	57	56	58	61	56	58	61	57	63	64	57	63	64	57	63	64	57	63	64					
Sound power level (supply) dB(A)	55	57	59	55	57	59	55	57	59	59	62	65	59	62	65	59	62	65	58	66	68	58	66	68	58	66	68	58	66	68						
ELECTRICAL DATA, MOTOR																																				
POWER INPUT	W	105	113	117	105	113	117	105	113	117	217	225	242	217	225	242	217	225	242	282	316	356	282	316	356	282	316	356	282	316	356					
DIMENSIONS (BASE UNIT)																																				
H X L X L	mm	235	X	520	X	1250				235	X	520	X	850			235	X	520	X	1050			235	X	520	X	1250			235	X	520	X	1250	

** Eurovent conditions: Entering air temperature = 27°C db/47% rh - entering water temperature = 7°C, water temperature difference = 5 K.

*** Eurovent conditions: Entering air temperature = 20°C, entering water temperature = 45°C, water temperature difference = 5 K

**** Eurovent conditions: Entering air temperature = 20°C, entering water temperature = 65°C, water temperature difference = 10 K.

Physical data



42NH (EC version*)	229	239	279	289	329	339	429	439
FAN SPEED	2V 7V 8V	2V 7V 8V	2V 6V 7V	2V 6V 7V	2V 3.7V 4.5V	2V 3.7V 4.5V	2V 3.7V 5V	2V 3.7V 5V
AIR FLOW m³/h	(L) 91 229 253	(L) 91 229 253	(L) 116 305 349	(L) 128 347 387	(L) 213 449.9 528	(L) 212 447.2 526.5	(L) 220 418 603	(L) 220 418 603
AVAILABLE STATIC PRESSURE Pa	8 50 61	8 50 61	7 50 65	7 50 62	11 50 69	11 50 70	11 50 81	11 50 81
COOLING MODE, TWO PIPES**								
TOTAL COOLING CAPACITY kW	0.55 1.26 1.36	0.62 1.45 1.58	0.78 1.86 2.07	1.00 2.44 2.67	1.11 1.93 2.15	1.29 2.50 2.85	1.23 2.42 2.93	1.21 2.76 3.50
SENSIBLE COOLING CAPACITY kW	0.43 1.00 1.09	0.46 1.11 1.22	0.59 1.44 1.61	0.71 1.79 1.97	0.92 1.68 1.89	1.01 2.00 2.29	0.99 1.98 2.42	0.99 2.17 2.74
WATER PRESSURE DROP kPa	4.3 18 21.1	3.7 13.8 16.2	4.7 21.9 26.9	4.4 21 25.1	6.5 18.09 21.9	6.6 22.14 28.1	4.6 15.32 21.6	4.7 20.19 31.9
HEATING MODE, TWO PIPES**								
HEATING CAPACITY kW	0.64 1.48 1.61	0.70 1.68 1.84	0.88 2.17 2.44	1.05 2.78 3.09	1.46 2.68 2.99	1.61 3.16 3.61	1.35 3.00 3.80	1.45 3.19 4.08
WATER PRESSURE DROP kPa	5.4 19.8 22.8	3.9 15.5 18	5.7 23.7 28.9	4.9 23.3 27.8	9.4 25.45 30.7	9 27.2 34.05	5.3 18.26 26.9	6.3 22.45 33.7
COOLING MODE, FOUR PIPES**								
TOTAL COOLING CAPACITY kW		NA	0.49 1.10 1.19	0.60 1.39 1.53	0.94 2.17 2.35			
SENSIBLE COOLING CAPACITY kW		NA	0.41 0.93 1.01	0.50 1.19 1.32	0.68 1.66 1.81			
WATER PRESSURE DROP kPa		NA	2.4 6 6.8	2.8 8.9 10.7	5.9 26 30			
HEATING MODE, FOUR PIPES****								
HEATING CAPACITY kW		NA	0.77 1.73 1.88	0.96 2.16 2.37	0.97 2.29 2.53	NA	1.82 3.20 3.51	NA
WATER PRESSURE DROP kPa		NA	2 5.3 5.9	2.5 7.3 8.4	2.5 7.8 9.1	7 17.14 19.9	5.1 19.59 29.4	
ELECTRIC HEATER					230V ±10% - 1PH - 50HZ			
MAXIMUM CAPACITY W	1000		1000		1000	1600	1600	1600
SOUND LEVELS								
Sound power level (return and radiated) dB(A)	36 50 52	36 50 52	34 52 54	36 54 57	37 54 58	37 54 58	37 54 60	37 54 60
Sound power level (supply) dB(A)	37 51 53	37 51 53	34 55 58	35 56 59	40 59 63	40 59 63	40 62 67	40 62 67
ELECTRICAL DATA, MOTOR								
POWER INPUT W	3 18 22	3 18 22	4 25 36	7 36 49	8 37 58.5	8 37 58.5	8 37 76	8 37 76
DIMENSIONS (BASE UNIT)	H X L X L mm		235 X 520 X 680			235 X 520 X 850		235 X 520 X 1050

42NH (EC version*)	529	539	549	639	649	739	749	
FAN SPEED	2V 5V 6V	2V 5V 6V	2V 5V 6V	2V 6V 7V	2V 7V 8V	2V 7V 8V	2V 7V 8V	
AIR FLOW m³/h	(L) 306 765 878	(L) 306 765 878	(L) 306 765 878	(L) 368 967 1089	(L) 323 1176 1310	(L) 445 1586 1717	(L) 445 1586 1717	
AVAILABLE STATIC PRESSURE Pa	8 50 66	8 50 66	8 50 66	7 50 63	4 50 62	4 50 59	4 50 59	
COOLING MODE, TWO PIPES**								
TOTAL COOLING CAPACITY kW	1.70 3.57 3.93	1.77 4.37 4.88		NA	1.76 5.44 5.99	1.87 7.49 8.14	2.79 8.84 9.34	2.97 9.94 10.56
SENSIBLE COOLING CAPACITY kW	1.37 2.98 3.31	1.41 3.46 3.88		NA	1.40 4.34 4.80	1.51 5.71 6.25	2.16 6.99 7.43	2.25 7.60 8.11
WATER PRESSURE DROP kPa	7.2 28.4 33	7.2 38.1 46.5		NA	3.5 20.3 24.6	3.7 29.1 34.4	6.6 52.7 58.2	5.8 51.8 57.7
HEATING MODE, TWO PIPES**								
HEATING CAPACITY kW	1.98 4.71 5.26	1.80 4.99 5.61		NA	2.19 6.90 7.70	2.33 8.94 9.84	3.22 10.51 11.31	3.22 11.19 12.07
WATER PRESSURE DROP kPa	8.8 36.4 44	8.4 44.8 54.8		NA	4.1 25.3 30.4	3.7 32.5 38.3	8.3 58 65.8	6.6 51.8 59.1
COOLING MODE, FOUR PIPES**								
TOTAL COOLING CAPACITY kW		NA	1.65 3.64 4.01	1.73 4.03 4.51		NA	1.83 5.90 6.33	2.51 7.33 7.75
SENSIBLE COOLING CAPACITY kW		NA	1.34 3.00 3.33	1.39 3.28 3.68		NA	1.48 4.87 5.27	2.02 6.10 6.48
WATER PRESSURE DROP kPa		NA	7.2 30.5 36.3	6.8 32.8 40		NA	3.6 23.9 27.7	6.7 44.7 49.5
HEATING MODE, FOUR PIPES****								
HEATING CAPACITY kW		NA	1.87 3.88 4.26	1.88 4.66 5.16		NA	2.17 7.22 7.70	3.07 9.65 10.28
WATER PRESSURE DROP kPa		NA	3.2 8.7 10.1	2.9 10.8 12.7		NA	2.3 11.9 13.2	4 23.3 25.9
ELECTRIC HEATER			230V ±10% - 1PH - 50HZ 2000			230V ±10% - 1PH - 50HZ 3200		
MAXIMUM CAPACITY W			2000		3200	3200		3000
SOUND LEVELS								
Sound power level (return and radiated) dB(A)	35 53 57	35 53 57	35 53 57	38 58 61	38 61 64	45 60 62	45 60 62	
Sound power level (supply) dB(A)	36 57 61	36 57 61	36 57 61	46 60 63	46 63 66	44 61 63	44 61 63	
ELECTRICAL DATA, MOTOR								
POWER INPUT W	9 52 78	9 52 78	9 52 78	8 76 106	9 111 153	10 137 177	10 137 177	
DIMENSIONS (BASE UNIT)	H X L X L mm		235 X 520 X 1250			285 X 575 X 1250		285 X 575 X 1550

42NL (EC version*)	229	239	329	339	429	439	529	539	549
FAN SPEED	2V 4V 6V	2V 5V 7V	2V 4V 6V	2V 3.5V 4V	2V 3.5V 4V	2V 5V 6V	2V 5.5V 6V	2V 5.5V 6V	2V 5.5V 6V
AIR FLOW m³/h	(L) 153 210 261	(L) 153 234 292	(L) 198 318 431	(L) 198 318 431	(L) 240 397 444	(L) 240 398 444	(L) 294 618 675	(L) 294 645 673	(L) 290 644.5 674
AVAILABLE STATIC PRESSURE Pa	0	0	0	0	0	0	0	0	0
COOLING MODE, TWO PIPES**									
TOTAL COOLING CAPACITY kW	0.89 1.17 1.41	1.00 1.48 1.81	1.05 1.52 1.89	1.21 1.87 2.44	1.33 2.09 2.31	1.34 2.32 2.60	1.65 3.04 3.26	1.70 3.78 3.93	
SENSIBLE COOLING CAPACITY kW	0.70 0.94 1.14	0.76 1.14 1.40	0.87 1.29 1.64	0.95 1.48 1.95	1.08 1.71 1.89	1.09 1.84 2.05	1.33 2.52 2.71	1.36 2.98 3.10	
WATER PRESSURE DROP kPa	9.4 15.7 22.1	7 14.1 20.3	5.9 11.2 17	5.9 12.6 20.7	5.3 11.5 13.8	5.4 14.3 17.7	6.8 20.6 23.5	6.7 29.1 31.5	
HEATING MODE, TWO PIPES**									
HEATING CAPACITY kW	1.03 1.37 1.65	1.13 1.70 2.08	1.37 2.05 2.60	1.50 2.34 3.06	1.49 2.52 2.82	1.59 2.68 3.00	1.90 3.90 4.22	1.70 4.26 4.44	
WATER PRESSURE DROP kPa	11 17.5 23.8	8.3 15.8 22.2	8.5 16.3 24.1	8.2 16.5 25.7	6.1 13.6 16.4	7.3 16.7 20.1	8.3 26.5 30.3	7.6 34.2 36.7	
COOLING MODE, FOUR PIPES**									
TOTAL COOLING CAPACITY kW		NA	0.76 1.12 1.35		NA	1.40 2.18 2.40			
SENSIBLE COOLING CAPACITY kW		NA	0.65 0.96 1.16		NA	1.11 1.76 1.94			
WATER PRESSURE DROP kPa		NA	3.4 6.1 8.3		NA	7 15.6 18.6			
HEATING MODE, FOUR PIPES****									
HEATING CAPACITY kW		NA	1.21 1.75 2.09		NA	1.50 2.68 3.02			
WATER PRESSURE DROP kPa		NA	3.3 5.4 6.9		NA	5.9 14.4 17.5			
ELECTRIC HEATER				230V ±10% - 1PH - 50HZ 1600		1600		2000	
MAXIMUM CAPACITY W		1000		1600		1600		2000	
SOUND LEVELS									
Sound power level (global) dB(A)	32 37 40	32 38 41	37 46 53	37 46 53	38 49 52	38 49 52	32 47 51	32 49 51	32 49 51
ELECTRICAL DATA, MOTOR									
POWER INPUT W	3 5 7	3 5 9	4 10 20	4 10 20	6 15 18	6 15 18	4 18 24	4 21 24	4 21 24
DIMENSIONS (BASE UNIT)	H X L X L mm		235 X 520 X 680		235 X 520 X 850		235 X 520 X 1050		235 X 520 X 1250

(EC version) *Please contact your sales representative for AC version physical data.

** Eurovent conditions: Entering air temperature = 27°C db/47% rh - entering water temperature = 7°C, water temperature difference = 5 K.

*** Eurovent conditions: Entering air temperature = 20°C, entering water temperature = 45°C, water temperature difference = 5K

**** Eurovent conditions: Entering air temperature = 20°C, entering water temperature = 65°C, water temperature difference = 10 K.