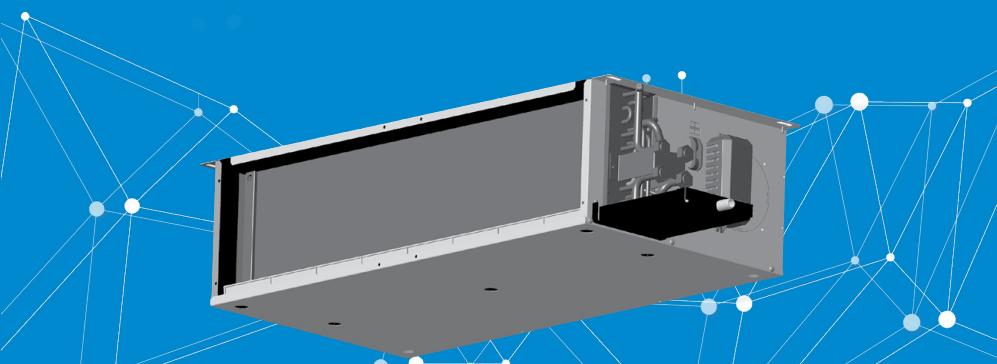




## PRODUCT SELECTION DATA

### DUCTABLE FAN COIL UNIT



Ducted unit for suspended ceiling application

Easy installation

Easy maintenance

42ET

**IDROFAN**  
®

The Carrier 42ET is available in different sizes with 2-pipe or 4-pipe coils, with an air flow range from 112 to 1087 m<sup>3</sup>/h, a total cooling capacity range from 0.7 kW to 6.98 kW and a heating capacity range from 0.88 kW to 7.63 kW.



CARRIER participates in the ECP programme for FC/FCP  
Check ongoing validity of certificate:  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

## **1 - FUNCTIONS AND CONFIGURATIONS**

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- Compact and modular ducted unit, designed for any suspended ceiling installation.
- Reliable and economical for tertiary buildings and hotels, guesthouses, offices or light commercial applications.
- Low height of 235 mm (sizes 2/3/4/5).
- Two types of asynchronous fan motor assembly available:
  - standard version
  - Low noise level version
- G3 filter as standard.

### **1.1 - Configuration**

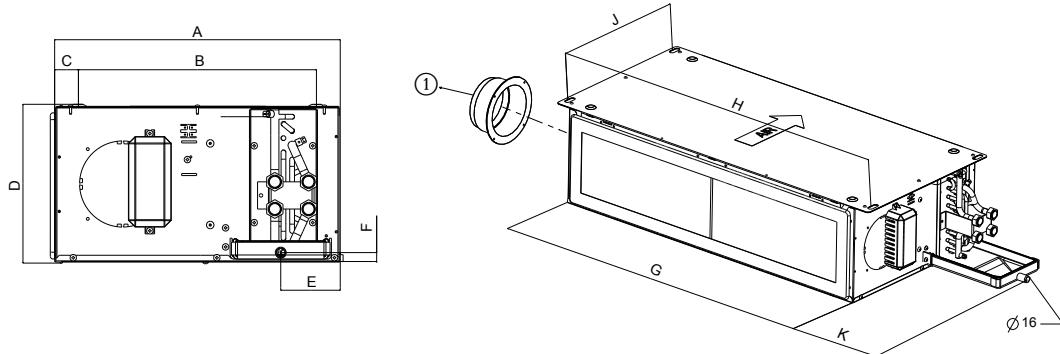
Each of the 42ET sizes can be equipped:

- with a direct air supply/return.
- with a rectangular sleeve on the return and/or supply for connection to a rectangular duct.

## 2 - DIMENSIONAL DRAWINGS

**NOTE:** All drawings shown have the coil connections on the right-hand side. Units with left-hand connections are symmetrical.

### Standard unit non-ducted supply and return



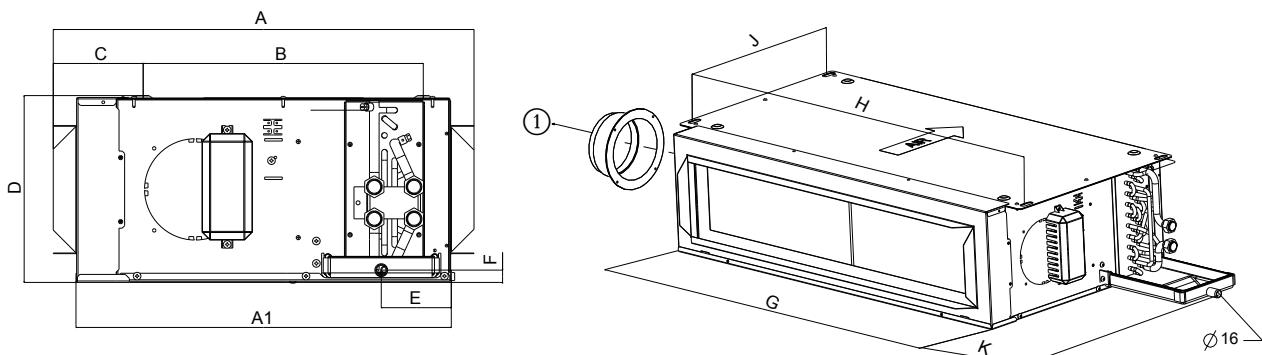
Dimensions in mm

Size	2xx	3xx	4xx	5xx
A	420	420	420	420
B	361	361	361	361
C	35	35	35	35
D	234	234	234	234
E	88	88	88	88
F	12	12	12	12

Dimensions in mm

Size	2xx	3xx	4xx	5xx
G	450	620	820	1020
H	500	670	870	1070
J	361	361	361	361
K	228	228	228	228
G + K	678	848	1048	1248
Weight* [kg]	12	14	17	20

### Unit with rectangular sleeves at air supply and return



Dimensions in mm

Size	2xx	3xx	4xx	5xx
A	525	525	525	525
B	361	361	361	361
C	112	112	112	112
D	234	234	234	234
E	88	88	88	88
Rectangular Flanges	380 x 160	550 x 160	750 x 160	950 x 160

Dimensions in mm

Size	2xx	3xx	4xx	5xx
F	12	12	12	12
A1	469	469	469	469
G	453	623	823	1023
H	500	670	870	1070
J	361	361	361	361
K	228	228	228	228
G + K	681	851	1051	1251
Weight* [kg]	12	14	17	20

#### KEY

1 Lateral optimized fresh air position in base unit (opposite to coil hand at inlet)

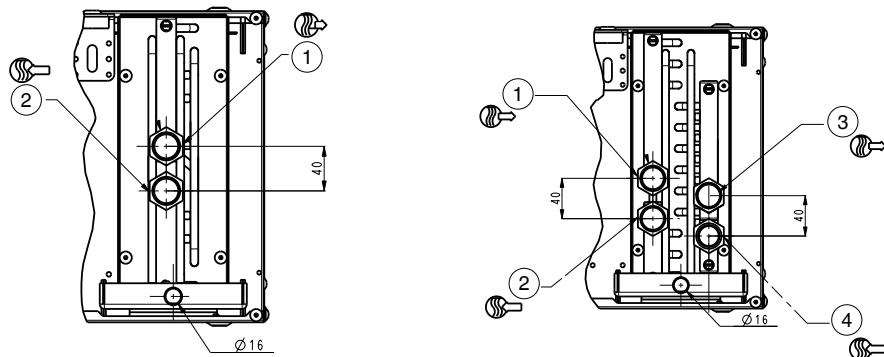
\* Maximum weight - without valve option - without water

→ Air flow direction

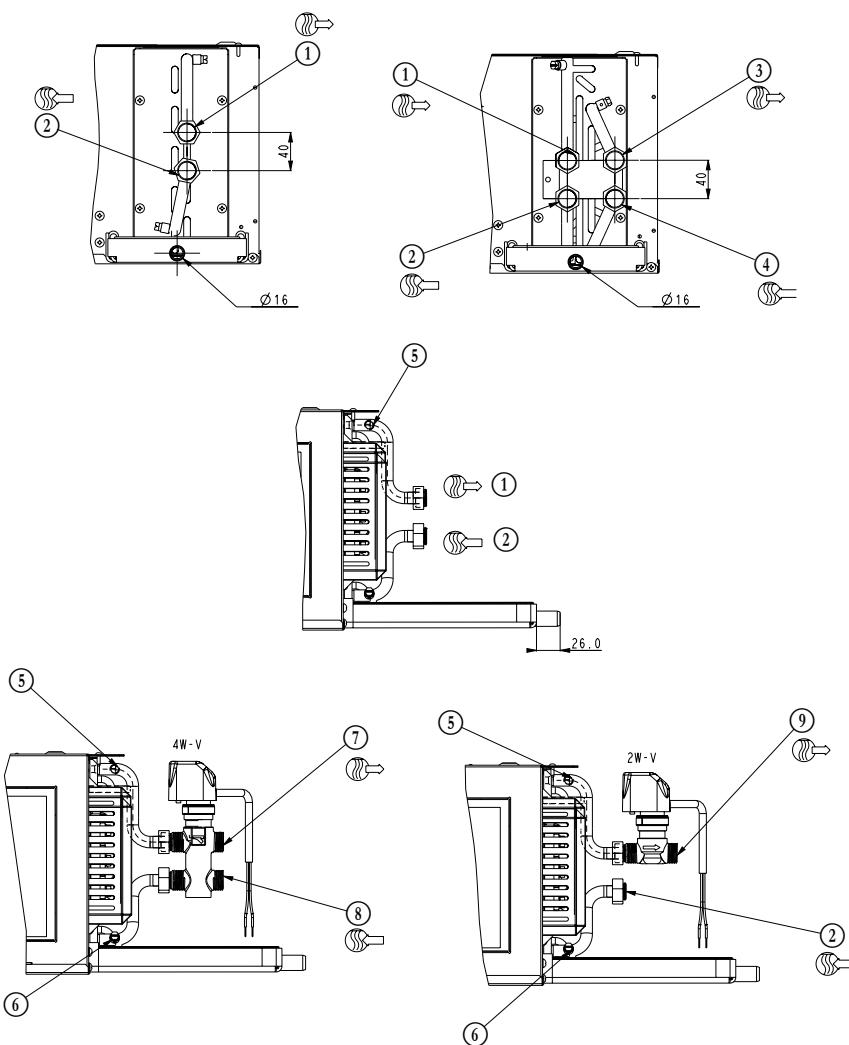
All dimensions are in mm.

## 2 - DIMENSIONAL DRAWINGS

### Water coil



DN:  
1/2" 42ET 2xx, 3xx, 4xx, 5xx



#### Key

- 1 Cooling water outlet for 4-pipe coil and heating/cooling for 2-pipe coil
- 2 Cooling water inlet for 4-pipe coil and heating/cooling for 2-pipe coil
- 3 Heating water outlet (4-pipe coil)
- 4 Heating water inlet (4-pipe coil)
- 5 Air bleed valve
- 6 Water drain

- 7 Water outlet of 4w-v
- 8 Water inlet of 4w-v
- 9 Water outlet of 2w-v
- 2w-v Two-way valve
- 4w-v Four-way valve (= three-way valve with integral by-pass)

## 3 - MAIN MODULES AND COMPONENTS

---

### 3.1 - Casing

In order to further enhance occupant comfort this product range offers especially low noise levels. The casing is made of galvanised sheet steel with full high-efficiency internal lining for optimised thermal and sound insulation of the unit.

In order to comply with the various local regulations (fire class) the fan coil unit is available with both class M1 type insulation (in compliance with NF P 92-507) and Euroclass level B-s3-d0 (in compliance with EN 13501).

In order to reduce the dimensions to the minimum, the units are equipped with high-efficiency heat exchangers with very high cooling capacity/treated air flow ratios. The condensate drain pan height is optimised.

### 3.2 - Fan motor assemblies

#### 3.2.1 - Multi-speed motor in compliance with ErP 2015 regulations

##### Motor description

- Asynchronous motors, 4 poles with internal overload protection
- Permanent capacitor
- Class B winding insulation, varnish class F
- See operating limits in chapter 8.

The 42ET unit has a multi-speed fan with forward curved, double inlet, single or double wheel fans depending on the unit size.

Six speeds are available and three standard speeds are factory connected.

- Minimum speed: R6
- Maximum speed: R1
- To modify the fan motor speed on site please refer to the IOM

### 3.3 - Electrical connection solutions

#### 3.3.1 - Unit with bare wire type connection (standard)

The three standard speeds of the multi-speed fan are available with bare wires.

Minimum speed = R6 maximum speed = R1.

#### 3.3.2 - Unit with electrics box

The unit may be factory-fitted with an optional electrics box with the 3 standard speeds connected to a terminal strip. This option enables the installer to connect the unit to a thermostat. The electrics box can be opened with a screwdriver.

### 3.4 - Hydraulic coil

- Aluminium fins mechanically bonded by expansion onto copper tubes
- 1/2-inch threaded female water inlet and outlet connections
- Air bleed valves and drain as standard.
- Operating pressure 1550 kPa.

The coil, condensate drain pan and coil access door are in the form of an easily removable drawer.

### 3.5 - Single unit condensate drain pan

One-piece condensate drain pan made in polypropylene and insulated with 5 mm of foam.

Drain connection diameter: Ø 16 mm external

M1 fire rating (in compliance with NFP92-507).

### 3.6 - Filter

#### 3.6.1 - Specifications

The 42ET unit includes as standard G3 filter in compliance with EN 779.

G3 filters have medium fire rating M1 (according to NFP 92-507) and a metal frame.

The "without filter" option is only available for units with a rectangular flange on the return side to ensure that a duct can be connected when the unit operates.

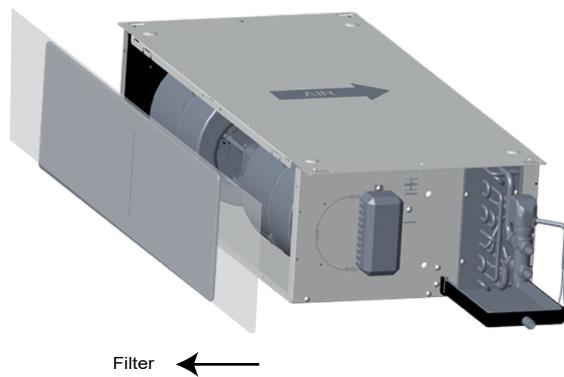
To prevent coil fouling, Carrier recommends the use of a filter installed in either the fan coil unit or in the return air grille.

## **3 - MAIN MODULES AND COMPONENTS**

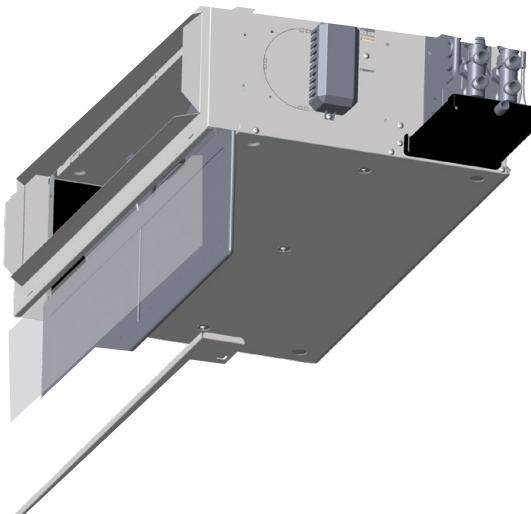
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### **3.6.2 - Filter access**

Without a rectangular return flange, the filter is removed from the rear.



With a rectangular flange or return plenum, the filter is removed from below (hatch).



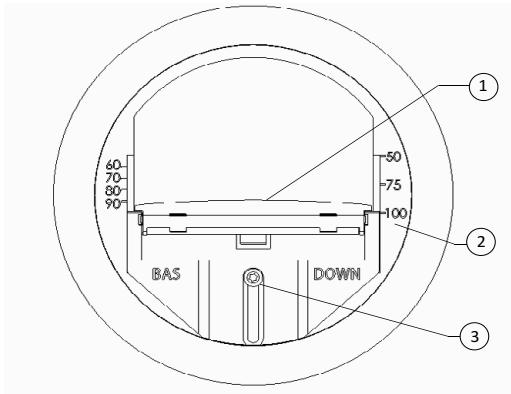
## 4 - ACCESSORIES SPECIFICATIONS

### 4.1 - Fresh air controller (option)

#### 4.1.1 - Constant volume fresh air controller

The unit can be fitted with a constant fresh air flow controller adjustable from 15 m<sup>3</sup>/h to 180 m<sup>3</sup>/h to allow the fresh air intake and the air change rate to be controlled.

The fresh air supply is located in the side of the base unit casing.



#### Example: Range 50-100 m<sup>3</sup>/h

- 1 Air Damper
- 2 Fresh airflow damper position setting (in m<sup>3</sup>/h)
- 3 Airflow adjustment screw

The fresh air controller may be modified on site by relocating the damper (adjustable screw). Three ranges of air-controller are provided: 15 to 50m<sup>3</sup>/h, 60 to 100m<sup>3</sup>/h and 110 to 180m<sup>3</sup>/h.

**IMPORTANT:** If a return air temperature sensor is provided, the constant fresh air flow rate must not exceed 50 % of the unit supply air flow rate at minimum speed.

**NOTE:** To operate correctly, the fresh air flow controller requires a differential pressure in the range of 60 Pa to 210 Pa.

### 4.2 - Valves and actuator motors (option)

**NOTE:** The motor/valve assembly is normally closed.

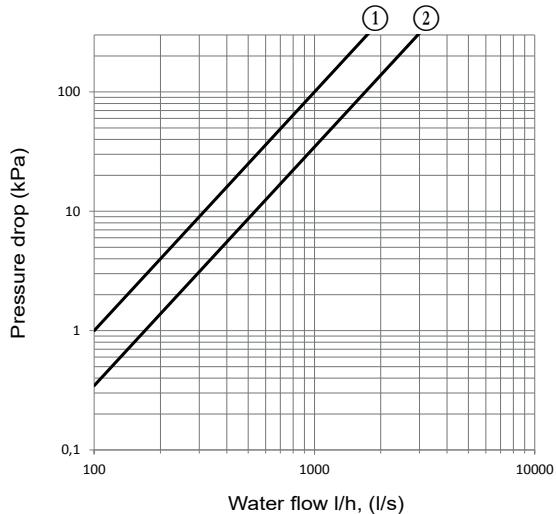
#### 4.2.1 - Valve actuator motors

The 42ET is available with two or four-way valve bodies (three-way with integral by-pass), with a 230 V on/off actuator.

#### 4.2.2 - Standard two-way valve and three-way valve (with integral by-pass)

##### Features of the 1/2" two-way and three-way valves

- 1/2" male BSP connection for union nuts
- Straight valve body with arrow indicating direction of flow embossed on valve body
- Nominal size DN15 for 1/2" valve
- Nominal pressure: PN 16 bar



##### Key

- 1 1/2" - 230 V ON/OFF valve 42ET - Size 2 Kvs = 1
- 2 1/2" - 230 V ON/OFF valve 42ET - Sizes 3,4,5 Kvs = 1.7

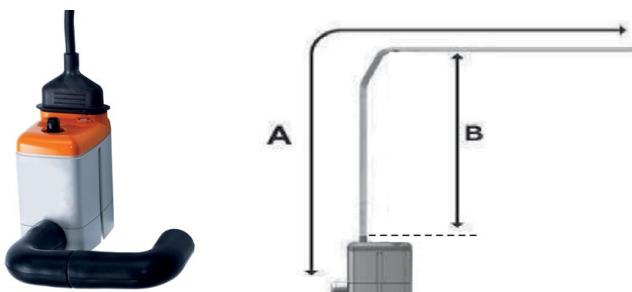
## 4 - ACCESSORIES SPECIFICATIONS

### 4.3 - Condensate pump (accessory)

The condensate pump option is designed to fit on the side of the unit drain pan. Electrical power supply 230V-50/60Hz.

Condensate pump discharge performances:

Discharge head (B)	Total length of pipe ( $\varnothing$ int. 6 mm ) A			
	5 m	10 m	20 m	30 m
0 m	20	19	18	17
2 m	16	15	14	13,5
4 m	11,5	11	10,5	10
6 m		8,5	7,5	6,5
8 m		6	5	4
10 m		4	3,5	2,5



Technical carateristics	
<b>Max. flow rate</b>	20 l/h -10%
<b>Max. recommended discharge height</b>	10 m
<b>Max. manometric pressure</b>	14 m
<b>Max sound level at 1 m distance</b>	< 28 dBA
<b>Electrical supply</b>	230V +10%/-15% - 50/60Hz
<b>Max. input Power</b>	16 W (for 230V/50Hz)
<b>Rated current</b>	65 mA (for 230V/50Hz)
<b>Detection levels</b>	ON : 18 mm, OFF : 12 mm, AL : 21.5 mm
<b>Alarm contact</b>	Contact NC : 8A maxi – 250V
<b>Thermal protection</b>	90°C (auto reset)
<b>Operating cycle (operating factor)</b>	100%
<b>Protection (as per NF EN 60529)</b>	IPX4

## 5 - PRODUCT CHARACTERISTICS LIST

Characteristic Name	Character no. coding	Value	Description
Range	1-2	42	
	3-4	ET	
UNIT SIZE (digits 5 - 6 - 7)	Chassis size	5	2 Chassis size 2
			3 Chassis size 3
			4 Chassis size 4
			5 Chassis size 5
Efficiency	Efficiency	6	2 Standard efficiency
			3 Medium efficiency
			4 High efficiency
			5 Extra high efficiency
Fan type	Fan type	7	5 Multi-speed AC motor
			6 Multi-speed AC motor Low Noise Level
Connection and coil type		8	F 2-pipe coil left-hand
			G 2 pipes coil Right Hand
			C 4 pipes coil Left Hand
			D 4 pipes coil Right Hand
Control		9	- Bare wires
			E Electrics box
Valve body		10	- Without valve
			G 2-way valve
			H 3-way valve with by-pass
Indoor air quality		11	- without filter
			V G3 filter
Valve actuator		12	- Without actuator
			A 230V ON/OFF actuator
Rectangular sleeves		13	- Without rectangular flange
			A Outlet rectangular flange only
			B Inlet rectangular flange only
			C Inlet and outlet rectangular flanges
Fresh air		14	- Without
			A DN125 spigot only
			B DN125 15 - 50 m³/h airflow controller
			C DN 125 50 - 100 m³/h airflow controller
			D DN125 100 - 180 m³/h airflow controller
Packaging		15	- Individual (PS protection)
			A Bundle (Filmed on a pallet)

## 6 - 42ET PERFORMANCE DATA

### 6.1 - Physical and electrical data at Eurovent conditions - 42ET - Size 2

With G3 filter - without plenum

42ET	225						235						245							
Fan speed	R6 (L)	R5 (M)	R4 (H)	R3	R2	R1 (L)	R6	R5 (M)	R4 (H)	R3	R2	R1 (L)	R6	R5 (M)	R4 (H)	R3	R2	R1 (H)		
(Eurovent certification speeds)																				
Air flow	I/s	53	63	90	104	118	133	53	63	90	104	118	133	53	63	90	104	118	133	
	m <sup>3</sup> /h	191	225	324	375	424	479	191	225	324	375	424	479	191	225	324	375	424	479	
Available static pressure	Pa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cooling mode, two pipes*																				
Total cooling capacity	kW	1,06	1,22	1,64	1,81	1,95	2,09	1,22	1,42	1,93	2,17	2,37	2,56	1,36	1,57	2,13	2,40	2,64	2,89	
Sensible cooling capacity	kW	0,84	0,97	1,33	1,48	1,62	1,75	0,93	1,08	1,50	1,69	1,87	2,04	0,99	1,15	1,60	1,82	2,02	2,23	
Water flow	I/s	0,05	0,06	0,08	0,09	0,10	0,10	0,06	0,07	0,09	0,11	0,12	0,13	0,07	0,08	0,10	0,12	0,13	0,14	
	I/h	190	210	290	320	350	370	210	250	340	380	420	450	240	280	370	420	460	510	
Water pressure drop	kPa	13,5	17,5	29,0	34,6	39,6	44,8	10,2	13,4	24	29,6	34	39,1	7,4	9,5	16,6	20,7	24,9	29,3	
Water volume	l	0,4						0,5						0,6						
Heating mode, two pipes**																				
Heating capacity	kW	1,26	1,45	1,97	2,20	2,41	2,62	1,42	1,65	2,28	2,59	2,86	3,15	1,53	1,79	2,52	2,86	3,12	3,29	
Water flow	I/s	0,06	0,07	0,09	0,11	0,12	0,13	0,07	0,08	0,11	0,13	0,14	0,15	0,08	0,09	0,12	0,14	0,15	0,16	
	I/h	220	250	340	380	420	460	250	290	400	450	500	550	270	310	440	500	540	570	
Water pressure drop	kPa	15,2	19,3	32,1	38,9	45,3	52,5	11,8	15,1	25,9	32	37,9	44,7	8,9	11,4	19,8	24,4	28,3	31	
Water volume	l	0,4						0,5						0,6						
Cooling mode, four pipes*																				
Total cooling capacity	kW	NA						0,92	1,07	1,43	1,60	1,73	1,86	1,27	1,45	1,93	2,16	2,35	2,55	
Sensible cooling capacity	kW							0,78	0,90	1,23	1,38	1,51	1,64	0,95	1,09	1,50	1,69	1,86	2,04	
Water flow	I/s							0,04	0,05	0,07	0,08	0,09	0,09	0,06	0,07	0,09	0,11	0,11	0,13	
	I/h							160	190	250	280	310	330	220	250	340	380	410	450	
Water pressure drop	kPa							4,6	5,8	9,6	11,7	13,7	15,8	9,9	12,6	21,6	26,1	30,4	34,9	
Water volume	l							0,3						0,4						
Heating mode, four pipes***																				
Heating capacity	kW	NA						1,49	1,71	2,26	2,49	2,68	2,86	1,70	1,93	2,50	2,73	2,87	2,93	
Water flow	I/s							0,04	0,04	0,06	0,06	0,06	0,07	0,04	0,05	0,06	0,07	0,07	0,07	
	I/h							130	150	200	220	230	250	150	170	220	240	250	260	
Water pressure drop	kPa							4,3	5,2	7,8	9	10,2	11,3	5	6	9	10,2	11,1	11,5	
Water volume	l							0,2						0,3						
Sound levels																				
Sound power level (overall)	dB(A)	38	42	50	53	56	59	38	42	50	53	56	59	38	42	50	53	56	59	
Electrical data, motor																				
Power input	W	27	31	46	54	66	83	27	31	46	54	66	83	27	31	46	54	66	83	
Input current	A	0,12	0,14	0,21	0,25	0,30	0,38	0,12	0,14	0,21	0,25	0,30	0,38	0,12	0,14	0,21	0,25	0,30	0,38	
FCEER [energy class]	2 pipes	36	[E]				42	[E]				46	[E]							
FCCOP [energy class]	2 pipes	44	[E]				50	[E]				53	[E]							
FCEER [energy class]	4 pipes	NA				32	[E]				42	[E]								
FCCOP [energy class]	4 pipes	NA				51	[E]				55	[E]								

\* Eurovent conditions: inlet air temperature = 27 °C db/47 % RH – water inlet temperature = 7 °C, water temperature difference = 5 K.

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

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



Eurovent certified values

## 6 - 42ET PERFORMANCE DATA

42ET		226						236						246											
Fan speed (Eurovent certification speeds)		R6 (L)	R5 (M)	R4 (H)	R3	R2	R1	R6 (L)	R5 (M)	R4 (H)	R3	R2	R1	R6 (L)	R5 (M)	R4 (H)	R3	R2	R1						
Air flow	I/s	33	37	51	61	72	86	33	37	51	61	72	86	33	37	51	61	72	86						
	m <sup>3</sup> /h	117	133	185	221	258	309	117	133	185	221	258	309	117	133	185	221	258	309						
Available static pressure	Pa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
<b>Cooling mode, two pipes*</b>																									
Total cooling capacity	kW	0,79	0,88	1,16	1,33	1,47	1,60	0,84	0,94	1,26	1,46	1,64	1,84	0,91	1,03	1,37	1,58	1,77	2,01						
Sensible cooling capacity	kW	0,59	0,66	0,89	1,03	1,15	1,29	0,61	0,69	0,94	1,10	1,25	1,43	0,65	0,73	0,99	1,15	1,31	1,52						
Water flow	I/s	0,04	0,04	0,06	0,06	0,07	0,08	0,04	0,04	0,06	0,07	0,08	0,09	0,04	0,05	0,07	0,08	0,09	0,10						
	I/h	140	150	200	230	260	280	150	160	220	260	290	320	160	180	240	280	310	350						
Water pressure drop	kPa	8,9	10,6	16,8	21,3	25,2	28,6	6,3	7,3	11,4	14,6	17,9	22,1	4,6	5,1	7,4	9,2	11,0	13,6						
Water volume	l	0,4				0,5				0,6															
<b>Heating mode, two pipes**</b>																									
Heating capacity	kW	0,90	1,02	1,37	1,59	1,77	1,86	0,92	1,04	1,41	1,66	1,90	2,22	0,95	1,08	1,49	1,76	2,03	2,38						
Water flow	I/s	0,04	0,05	0,07	0,08	0,09	0,09	0,04	0,05	0,07	0,08	0,09	0,11	0,05	0,05	0,07	0,09	0,10	0,11						
	I/h	160	180	240	280	310	320	160	180	240	290	330	390	170	190	260	310	350	410						
Water pressure drop	kPa	10	11,8	18,6	23,4	27,8	30,1	6,8	8,1	12,3	15,7	19,4	25	4,5	5,3	8,0	10,0	12,2	15,5						
Water volume	l	0,4				0,5				0,6															
<b>Cooling mode, four pipes*</b>																									
Total cooling capacity	kW	NA						0,73	0,81	1,05	1,19	1,29	1,36	0,80	0,89	1,15	1,29	1,40	1,47						
Sensible cooling capacity	kW							0,56	0,63	0,84	0,97	1,07	1,17	0,59	0,67	0,88	1,02	1,13	1,24						
Water flow	I/s							0,04	0,04	0,05	0,06	0,06	0,07	0,04	0,04	0,06	0,06	0,07	0,07						
	I/h							130	140	180	210	230	240	140	150	200	230	250	260						
Water pressure drop	kPa	NA						4,3	4,8	6,6	7,8	8,9	9,7	5,6	6,4	9,3	11,2	12,8	14,0						
Water volume	l							0,3				0,4													
<b>Heating mode, four pipes***</b>																									
Heating capacity	kW	NA						1,13	1,26	1,66	1,91	2,14	2,43	1,12	1,26	1,65	1,91	2,14	2,43						
Water flow	I/s							0,03	0,03	0,04	0,05	0,05	0,06	0,03	0,03	0,04	0,05	0,05	0,06						
	I/h							100	110	150	170	190	210	100	110	150	170	190	210						
Water pressure drop	kPa							4	4,4	6	7,1	8,2	9,7	4	4,4	5,9	6,9	8	9,5						
Water volume	l	0,2				0,3				0,3															
<b>Sound levels</b>																									
Sound power level (overall)	dB(A)	26	28	35	39	43	47	26	28	35	39	43	47	26	28	35	39	43	47						
<b>Electrical data, motor</b>																									
Power input	W	13	15	20	24	29	36	13	15	20	24	29	36	13	15	20	24	29	36						
Input current	A	0,06	0,07	0,09	0,11	0,13	0,16	0,06	0,07	0,09	0,11	0,13	0,16	0,06	0,07	0,09	0,11	0,13	0,16						
FCEER [energy class]	2 pipes	58	[D]				63	[D]				67	[D]												
FCCOP [energy class]	2 pipes	67	[E]				70	[E]				72	[D]												
FCEER [energy class]	4 pipes	NA						53	[E]				56	[D]											
FCCOP [energy class]	4 pipes	NA						83	[D]				82	[D]											

**Fan speed: L = Low, M = Medium, H = High**

\* Eurovent conditions: inlet air temperature = 27 °C db/47 % RH – inlet water temperature = 7 °C, water temperature difference = 5 K.

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

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



Eurovent certified values

## 6 - 42ET PERFORMANCE DATA

### 6.2 - Physical and electrical data at Eurovent conditions - 42ET - Size 3

With G3 filter - without plenum

42ET	325						335						
Fan speed	R6 (L)	R5	R4 (M)	R3	R2	R1 (H)	R6 (L)	R5	R4 (M)	R3	R2	R1 (H)	
(Eurovent certification speeds)													
Air flow	I/s	89	100	135	151	167	183	89	100	135	151	167	
	m³/h	321	361	485	544	601	657	321	361	485	544	601	
Available static pressure	Pa	0	0	0	0	0	0	0	0	0	0	0	
Cooling mode, two pipes*													
Total cooling capacity	kW	1,50	1,63	2,02	2,18	2,33	2,46	1,86	2,06	2,66	2,92	3,15	
Sensible cooling capacity	kW	1,27	1,40	1,76	1,92	2,06	2,19	1,47	1,63	2,13	2,35	2,55	
Water flow	I/s	0,07	0,08	0,10	0,11	0,11	0,12	0,09	0,10	0,13	0,14	0,16	
	I/h	260	290	360	390	410	440	330	360	470	510	560	
Water pressure drop	kPa	11,4	13,4	19,9	22,6	25,4	27,9	12,8	15,5	25,1	29,5	33,5	
Water volume	I	0,7						0,9					
Heating mode, two pipes**													
Heating capacity	kW	2,07	2,27	2,83	3,06	3,26	3,43	2,36	2,63	3,39	3,71	4,00	
Water flow	I/s	0,10	0,11	0,14	0,15	0,16	0,17	0,11	0,13	0,16	0,18	0,19	
	I/h	360	400	490	530	570	600	410	460	590	650	700	
Water pressure drop	kPa	19,4	22,3	31,3	35,4	39,2	42,8	16,7	19,9	30,5	35,6	40,5	
Water volume	I	0,7						0,9					
Cooling mode, four pipes*													
Total cooling capacity	kW	NA						2,26	2,48	3,13	3,42	3,68	
Sensible cooling capacity	kW							1,65	1,83	2,35	2,58	2,80	
Water flow	I/s							0,11	0,12	0,15	0,17	0,19	
	I/h							390	430	550	600	690	
Water pressure drop	kPa							36,1	42,4	63,2	73,5	83,5	
Water volume	I							0,6					
Heating mode, four pipes***													
Heating capacity	kW	NA						2,55	2,78	3,36	3,57	3,75	
Water flow	I/s							0,06	0,07	0,08	0,09	0,09	
	I/h							220	240	290	310	330	
Water pressure drop	kPa							11,8	13,6	18,5	20,5	22,3	
Water volume	I							0,3					
Sound levels													
Sound power level (overall)	dB(A)	44	47	55	58	60	62	44	47	55	58	60	
Electrical data, motor													
Power input	W	39	45	63	74	85	101	39	45	63	74	85	
Input current	A	0,18	0,21	0,29	0,34	0,39	0,46	0,18	0,21	0,29	0,34	0,46	
FCEER [energy class]	2 pipes	35	[E]						44	[E]			
FCCOP [energy class]	2 pipes	48	[E]						56	[E]			
FCEER [energy class]	4 pipes	NA						53	[E]				
FCCOP [energy class]	4 pipes	NA						59	[E]				

Fan speed: L = Low, M = Medium, H = High

\* Eurovent conditions: inlet air temperature = 27 °C db/47 % RH – water inlet temperature = 7 °C, water temperature difference = 5 K.

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

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



Eurovent certified values

## 6 - 42ET PERFORMANCE DATA

42ET		345						346					
Fan speed (Eurovent certification speeds)		R6 (L)	R5 (M)	R4 (M)	R3 (H)	R2 (H)	R1 (H)	R6 (L)	R5 (M)	R4 (M)	R3 (H)	R2 (H)	R1 (H)
Air flow	I/s	89	100	135	151	167	183	42	49	71	84	101	121
	m³/h	321	361	485	544	601	657	152	178	254	304	365	437
Available static pressure	Pa	0	0	0	0	0	0	0	0	0	0	0	0
<b>Cooling mode, two pipes*</b>													
Total cooling capacity	kW	2,39	2,63	3,23	3,44	3,60	3,75	1,17	1,37	1,93	2,27	2,64	3,01
Sensible cooling capacity	kW	1,71	1,90	2,41	2,60	2,77	2,93	0,83	0,97	1,37	1,62	1,91	2,21
Water flow	I/s	0,12	0,13	0,16	0,17	0,18	0,18	0,06	0,07	0,09	0,11	0,13	0,15
	I/h	420	460	570	600	630	660	210	240	340	400	460	530
Water pressure drop	kPa	26,3	31,3	43,7	48,5	52,5	56,4	8,8	10,8	18,5	24,3	31,8	39,3
Water volume	l	1,0						1,0					
<b>Heating mode, two pipes**</b>													
Heating capacity	kW	2,48	2,74	3,41	3,67	3,91	4,16	1,24	1,44	2,02	2,37	2,77	3,17
Water flow	I/s	0,12	0,13	0,16	0,18	0,19	0,20	0,06	0,07	0,10	0,11	0,13	0,15
	I/h	430	480	590	640	680	720	220	250	350	410	480	550
Water pressure drop	kPa	23,8	27,7	39,1	44,1	49	54,2	9,2	11,1	17,5	22,2	28,1	34,9
Water volume	l	1,0						1,0					
<b>Cooling mode, four pipes*</b>													
Total cooling capacity	kW	2,46	2,70	3,38	3,66	3,90	4,12	1,14	1,33	1,91	2,27	2,65	2,91
Sensible cooling capacity	kW	1,74	1,93	2,46	2,69	2,90	3,10	0,81	0,95	1,36	1,62	1,90	2,15
Water flow	I/s	0,12	0,13	0,16	0,18	0,19	0,20	0,06	0,06	0,09	0,11	0,13	0,14
	I/h	430	470	590	640	680	730	200	230	340	400	460	510
Water pressure drop	kPa	37,6	44	64,1	73,6	82,4	90,9	11,4	14,9	28,2	37,9	48,7	57,3
Water volume	l	0,6						0,6					
<b>Heating mode, four pipes***</b>													
Heating capacity	kW	2,55	2,78	3,36	3,57	3,75	3,93	1,52	1,73	2,21	2,44	2,69	3,12
Water flow	I/s	0,06	0,07	0,08	0,09	0,09	0,09	0,04	0,04	0,05	0,06	0,07	0,08
	I/h	220	240	290	310	330	340	130	150	190	210	240	270
Water pressure drop	kPa	10,7	11,9	15,5	16,9	18,2	19,4	6,1	6,9	9,0	10,1	11,4	13,9
Water volume	l	0,4						0,4					
<b>Sound levels</b>													
Sound power level (overall)	dB(A)	44	47	55	58	60	62	28	31	41	45	49	54
<b>Electrical data, motor</b>													
Power input	W	39	45	63	74	85	101	25	29	41	49	59	72
Input current	A	0,18	0,21	0,29	0,34	0,39	0,46	0,11	0,13	0,19	0,22	0,27	0,33
FCEER [energy class]	2 pipes	55	[E]				46	[E]					
FCCOP [energy class]	2 pipes	58	[E]				49	[E]					
FCEER [energy class]	4 pipes	54	[E]				45	[E]					
FCCOP [energy class]	4 pipes	59	[E]				57	[E]					

**Fan speed: L = Low, M = Medium, H = High**

\* Eurovent conditions: inlet air temperature = 27 °C db/47 % RH – water inlet temperature = 7 °C, water temperature difference = 5 K.

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

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



Eurovent certified values

## 6 - 42ET PERFORMANCE DATA

### 6.3 - Physical and electrical data at Eurovent conditions - 42ET - Size 4

With G3 filter - without plenum

42ET		425						435						
Fan speed		R6	R5	R4	R3	R2	R1	R6	R5	R4	R3	R2	R1	
(Eurovent certification speeds)		(L)		(M)			(H)	(L)		(M)		(H)		
Air flow	I/s	148	166	229	262	291	309	148	166	229	262	291	309	
	m³/h	532	596	824	942	1047	1114	532	596	824	942	1047	1114	
Available static pressure	Pa	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Cooling mode, two pipes*</b>														
Total cooling capacity	kW	2,75	3,00	3,80	4,13	4,38	4,50	3,26	3,63	4,76	5,20	5,52	5,66	
Sensible cooling capacity	kW	2,23	2,45	3,18	3,50	3,75	3,88	2,51	2,80	3,73	4,14	4,45	4,60	
Water flow	I/s	0,13	0,15	0,19	0,20	0,21	0,22	0,16	0,18	0,23	0,25	0,27	0,28	
	I/h	480	530	670	730	770	800	570	640	830	910	970	1000	
Water pressure drop	kPa	19,2	22,4	33,4	38,6	42,7	45,1	27,7	33,7	52,7	61,6	68,2	71,7	
Water volume	I	1,0						1,3						
<b>Heating mode, two pipes**</b>														
Heating capacity	kW	3,33	3,73	5,04	5,61	5,99	6,16	3,51	3,97	5,54	6,25	6,72	6,90	
Water flow	I/s	0,16	0,18	0,24	0,27	0,29	0,30	0,17	0,19	0,27	0,30	0,33	0,33	
	I/h	580	650	880	980	1040	1070	610	690	960	1090	1170	1200	
Water pressure drop	kPa	21,6	26,1	43,6	52,4	58,8	61,6	26,1	32,1	56,9	70	79,5	83,1	
Water volume	I	1,0						1,3						
<b>Cooling mode, four pipes*</b>														
Total cooling capacity	kW	NA						2,81	3,07	3,87	4,21	4,49	4,63	
Sensible cooling capacity	kW							2,27	2,50	3,23	3,56	3,83	3,97	
Water flow	I/s							0,14	0,15	0,19	0,21	0,22	0,23	
	I/h							490	540	680	740	790	820	
Water pressure drop	kPa							25,4	29,6	43,8	50,7	56,7	60,3	
Water volume	I	0,9												
<b>Heating mode, four pipes***</b>														
Heating capacity	kW	NA						3,69	4,12	5,38	5,82	6,04	6,09	
Water flow	I/s							0,09	0,10	0,13	0,14	0,15	0,15	
	I/h							320	360	470	510	530	530	
Water pressure drop	kPa							24,5	29,4	46,6	53,4	57	57,7	
Water volume	I	0,5												
<b>Sound levels</b>														
Sound power level (overall)	dB(A)	43	47	54	57	60	62	43	47	54	57	60	62	
<b>Electrical data, motor</b>														
Power input	W	58	68	98	115	132	158	58	68	98	115	132	158	
Input current	A	0,27	0,31	0,45	0,53	0,60	0,72	0,27	0,31	0,45	0,53	0,60	0,72	
FCEER [energy class]	2 pipes	42	[E]						49	[E]				
FCCOP [energy class]	2 pipes	53	[E]						56	[E]				
FCEER [energy class]	4 pipes	NA						41	[E]					
FCCOP [energy class]	4 pipes	NA						56	[E]					

**Fan speed:** L = Low, M = Medium, H = High

\* Eurovent conditions: inlet air temperature = 27 °C db/47 % RH – inlet water temperature = 7 °C, water temperature difference = 5 K.

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

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



Eurovent certified values

## 6 - 42ET PERFORMANCE DATA

42ET		426						436					
Fan speed (Eurovent certification speeds)	(L)	R6	R5	R4	R3	R2	R1 (H)	R6	R5	R4	R3 (M)	R2	R1 (H)
Air flow	I/s	68	92	126	151	177	216	68	92	126	151	177	216
	m³/h	246	331	454	545	638	776	246	331	454	545	638	776
Available static pressure	Pa	0	0	0	0	0	0	0	0	0	0	0	0
<b>Cooling mode, two pipes*</b>													
Total cooling capacity	kW	1,32	1,72	2,28	2,67	3,01	3,37	1,49	1,99	2,71	3,22	3,66	4,02
Sensible cooling capacity	kW	1,08	1,41	1,88	2,21	2,51	2,86	1,17	1,56	2,12	2,52	2,88	3,27
Water flow	I/s	0,06	0,08	0,11	0,13	0,15	0,16	0,07	0,10	0,13	0,16	0,18	0,19
	I/h	230	300	400	470	530	590	260	350	470	560	640	700
Water pressure drop	kPa	7,1	10,6	17,1	22,5	27,5	33	7,3	11,5	19,5	26,6	33,2	38,6
Water volume	l	1,0						1,3					
<b>Heating mode, two pipes**</b>													
Heating capacity	kW	1,66	2,12	2,73	3,20	3,72	4,62	1,72	2,26	3,03	3,61	4,21	5,09
Water flow	I/s	0,08	0,10	0,13	0,16	0,18	0,22	0,08	0,11	0,15	0,18	0,20	0,24
	I/h	290	370	480	560	650	800	300	390	530	630	730	880
Water pressure drop	kPa	10,6	14	19,6	24,5	30,7	43,1	8,4	12,6	20,4	27,3	35,4	49,1
Water volume	l	1,0						1,3					
<b>Cooling mode, four pipes*</b>													
Total cooling capacity	kW	NA						1,35	1,79	2,44	2,87	3,26	3,62
Sensible cooling capacity	kW							1,09	1,45	1,97	2,33	2,66	3,03
Water flow	I/s							0,07	0,09	0,12	0,14	0,16	0,18
	I/h							240	310	430	500	570	640
Water pressure drop	kPa							7,8	12,1	20,6	27,4	33,6	40
Water volume	l							0,9					
<b>Heating mode, four pipes***</b>													
Heating capacity	kW	NA						2,24	2,73	3,15	3,35	3,58	4,34
Water flow	I/s							0,06	0,07	0,08	0,08	0,09	0,11
	I/h							200	240	280	290	310	380
Water pressure drop	kPa							11,8	15,8	19,8	21,7	24,2	33,2
Water volume	l							0,5					
<b>Sound levels</b>													
Sound power level (overall)	dB(A)	24	30	39	42	47	52	24	30	39	42	47	52
<b>Electrical data, motor</b>													
Power input	W	22	32	43	55	68	88	22	32	43	55	68	88
Input current	A	0,10	0,15	0,20	0,25	0,31	0,40	0,10	0,15	0,20	0,25	0,31	0,40
FCEER [energy class]	2 pipes	54	[E]					63	[D]				
FCCOP [energy class]	2 pipes	68	[E]					73	[D]				
FCEER [energy class]	4 pipes	NA					57					[D]	
FCCOP [energy class]	4 pipes	NA					84					[D]	

**Fan speed: L = Low, M = Medium, H = High**

\* Eurovent conditions: inlet air temperature = 27 °C db/47 % RH – inlet water temperature = 7 °C, water temperature difference = 5 K.

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

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



Eurovent certified values

## 6 - 42ET PERFORMANCE DATA

### 6.4 - Physical and electrical data at Eurovent conditions - 42ET - Size 5

With G3 filter - without plenum

42ET		525						535					
Fan speed		R6	R5	R4	R3	R2	R1	R6	R5	R4	R3	R2	R1
(Eurovent certification speeds)		(L)		(M)		(H)		(L)		(M)		(H)	
Air flow	l/s	152	171	243	280	318	367	152	171	243	280	318	367
	m³/h	546	614	875	1009	1143	1322	546	614	875	1009	1143	1322
Available static pressure	Pa	0	0	0	0	0	0	0	0	0	0	0	0
Cooling mode, two pipes*													
Total cooling capacity	kW	2,71	2,98	3,89	4,28	4,65	5,08	3,17	3,56	4,84	5,39	5,86	6,40
Sensible cooling capacity	kW	2,23	2,46	3,28	3,65	3,99	4,42	2,49	2,79	3,85	4,33	4,76	5,28
Water flow	l/s	0,13	0,14	0,19	0,21	0,23	0,25	0,16	0,17	0,24	0,26	0,29	0,31
	l/h	480	520	690	760	820	900	560	620	850	950	1030	1130
Water pressure drop	kPa	17,1	20,5	32,8	38,7	44,7	52,2	21,4	26,7	46,2	55,4	64	74,6
Water volume	l												
		1,4						1,8					
Heating mode, two pipes**													
Heating capacity	kW	3,49	3,89	5,25	5,83	6,33	6,90	3,60	4,06	5,59	6,23	6,74	7,27
Water flow	l/s	0,17	0,19	0,25	0,28	0,31	0,33	0,18	0,20	0,27	0,30	0,33	0,35
	l/h	610	680	910	1010	1100	1200	630	710	970	1080	1170	1260
Water pressure drop	kPa	21,9	26,3	43,8	52,5	60,6	70,3	25,7	31,5	54,5	65,5	75,1	85,6
Water volume	l												
		1,4						1,8					
Cooling mode, four pipes*													
Total cooling capacity	kW							2,73	3,02	3,98	4,39	4,76	5,19
Sensible cooling capacity	kW							2,22	2,46	3,30	3,68	4,03	4,45
Water flow	l/s							0,13	0,15	0,19	0,21	0,23	0,26
	l/h							480	530	700	770	840	920
Water pressure drop	kPa							18,3	22,2	36,1	42,7	49,1	57,3
Water volume	l												
		NA						1,1					
Heating mode, four pipes***													
Heating capacity	kW							3,01	3,30	4,25	4,65	4,99	5,39
Water flow	l/s							0,07	0,08	0,10	0,11	0,12	0,13
	l/h							260	290	370	410	440	470
Water pressure drop	kPa							6	6,8	10,1	11,6	13	14,7
Water volume	l												
		NA						1,1					
Sound levels													
Sound power level (overall)	dB(A)	44	47	54	57	60	62	44	47	54	57	60	62
Electrical data, motor													
Power input	W	59	69	100	119	140	171	59	69	100	119	140	171
Input current	A	0,27	0,32	0,46	0,54	0,64	0,78	0,27	0,32	0,46	0,54	0,64	0,78
FCEER [energy class]	2 pipes	41						50					
FCCOP [energy class]	2 pipes	55						57					
FCEER [energy class]	4 pipes							42					
FCCOP [energy class]	4 pipes							46					

Fan speed: L = Low, M = Medium, H = High

\* Eurovent conditions: inlet air temperature = 27 °C db/47 % RH – inlet water temperature = 7 °C, water temperature difference = 5 K.

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

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



Eurovent certified values

## 6 - 42ET PERFORMANCE DATA

42ET		545						555					
Fan speed (Eurovent certification speeds)		R6 (L)	R5	R4	R3	R2 (M)	R1 (H)	R6 (L)	R5	R4	R3 (M)	R2 (H)	R1 (H)
Air flow	l/s	152	171	243	280	318	367	139	164	228	262	293	325
	m³/h	546	614	875	1009	1143	1322	502	589	820	944	1055	1171
Available static pressure	Pa	0	0	0	0	0	0	0	0	0	0	0	0
<b>Cooling mode, two pipes*</b>													
Total cooling capacity	kW	4,06	4,48	5,96	6,63	7,23	7,85						
Sensible cooling capacity	kW	2,91	3,23	4,38	4,93	5,44	6,01						
Water flow	l/s	0,20	0,22	0,29	0,32	0,35	0,38	NA					
	l/h	710	780	1040	1160	1270	1380						
Water pressure drop	kPa	49,9	58,6	94,4	113,4	131,6	152,1						
Water volume	l	1,6											
<b>Heating mode, two pipes**</b>													
Heating capacity	kW	4,26	4,76	6,60	7,42	8,05	8,13						
Water flow	l/s	0,21	0,23	0,32	0,36	0,39	0,39	NA					
	l/h	740	830	1150	1290	1400	1410						
Water pressure drop	kPa	46,8	56,3	97,6	119,4	137,2	139,8						
Water volume	l	1,6											
<b>Cooling mode, four pipes*</b>													
Total cooling capacity	kW	2,95	3,29	4,47	5,01	5,50	6,08	3,54	4,02	5,21	5,81	6,35	6,90
Sensible cooling capacity	kW	2,38	2,65	3,64	4,11	4,55	5,09	2,58	2,96	3,92	4,41	4,85	5,29
Water flow	l/s	0,14	0,16	0,22	0,24	0,27	0,30	0,17	0,19	0,25	0,28	0,31	0,34
	l/h	520	580	780	880	970	1070	620	700	910	1020	1110	1210
Water pressure drop	kPa	18,4	22,6	39,7	48,2	56,6	67,6	45,6	55,9	86,5	104,4	121,6	140,9
Water volume	l	1,4						1,6					
<b>Heating mode, four pipes***</b>													
Heating capacity	kW	3,48	3,88	5,15	5,63	6,00	6,37	4,92	5,44	6,54	7,01	7,41	7,84
Water flow	l/s	0,08	0,09	0,13	0,14	0,15	0,16	0,12	0,13	0,16	0,17	0,18	0,19
	l/h	300	340	450	490	530	560	430	480	570	610	650	690
Water pressure drop	kPa	6,9	8,1	12,6	14,6	16,2	17,9	10,6	12,3	16,2	18	19,6	21,5
Water volume	l	0,6						0,4					
<b>Sound levels</b>													
Sound power level (overall)	dB(A)	44	47	54	57	60	62	43	46	53	56	59	61
<b>Electrical data, motor</b>													
Power input	W	59	69	100	119	140	171	58	68	99	116	135	165
Input current	A	0,27	0,32	0,46	0,54	0,64	0,78	0,27	0,31	0,45	0,53	0,62	0,76
FCEER [energy class]	2 pipes	63	[D]						0	[E]			
FCCOP [energy class]	2 pipes	67	[E]						0	[E]			
FCEER [energy class]	4 pipes	46	[E]						56	[D]			
FCCOP [energy class]	4 pipes	54	[E]						74	[D]			

**Fan speed: L = Low, M = Medium, H = High**

\* Eurovent conditions: inlet air temperature = 27 °C db/47 % RH – inlet water temperature = 7 °C, water temperature difference = 5 K.

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

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



Eurovent certified values

## 6 - 42ET PERFORMANCE DATA

42ET		536						546						556											
Fan speed (Eurovent certification speeds)	(L)	R6	R5	R4	R3	R2	R1	R6	R5	R4	R3	R2	R1	R6	R5	R4	R3	R2	R1						
Air flow	l/s	133	154	223	259	294	327	133	154	223	259	294	327	129	147	213	248	280	313						
Available static pressure	Pa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Cooling mode, two pipes*																									
Total cooling capacity	kW	3,21	3,59	4,57	5,05	5,54	6,12	3,62	4,12	5,57	6,26	6,85	7,36	NA											
Sensible cooling capacity	kW	2,40	2,71	3,60	4,04	4,47	4,95	2,58	2,95	4,08	4,63	5,12	5,55												
Water flow	l/s	0,16	0,18	0,22	0,25	0,27	0,30	0,18	0,20	0,27	0,30	0,33	0,36												
	l/h	560	630	800	890	970	1080	630	720	970	1090	1200	1290												
Water pressure drop	kPa	23,8	29,0	43,8	51,5	60,1	71,0	42,1	51,1	84,4	102,8	120,0	135,9												
Water volume	l	1,3						1,6																	
Heating mode, two pipes**																									
Heating capacity	kW	3,72	4,24	5,69	6,26	6,66	6,91	3,78	4,36	6,14	6,94	7,53	7,74	NA											
Water flow	l/s	0,18	0,21	0,28	0,30	0,32	0,33	0,18	0,21	0,30	0,34	0,36	0,38												
	l/h	650	740	990	1090	1160	1200	660	760	1070	1210	1310	1350												
Water pressure drop	kPa	28,4	35,0	56,5	66,2	73,4	78,1	38,6	48,8	86,3	106,5	122,4	128,4												
Water volume	l	1,3						1,6																	
Cooling mode, four pipes*																									
Total cooling capacity	kW	NA						2,57	2,96	4,18	4,75	5,22	5,55	3,33	3,70	4,95	5,56	6,13	6,69						
Sensible cooling capacity	kW							2,08	2,39	3,39	3,88	4,29	4,61	2,42	2,70	3,70	4,21	4,67	5,12						
Water flow	l/s							0,13	0,14	0,20	0,23	0,26	0,27	0,16	0,18	0,24	0,27	0,30	0,33						
	l/h							450	520	730	830	920	980	580	650	860	970	1070	1170						
Water pressure drop	kPa							16,2	20,6	37,3	46,2	53,7	59,6	40,9	49,2	79,2	96,7	114,4	133,0						
Water volume	l	1,4						1,6																	
Heating mode, four pipes***																									
Heating capacity	kW	NA						3,45	3,79	4,79	5,28	5,74	6,22	4,68	5,10	6,32	6,82	7,24	7,66						
Water flow	l/s							0,08	0,09	0,12	0,13	0,14	0,15	0,11	0,13	0,15	0,17	0,18	0,19						
	l/h							300	330	420	460	500	550	410	450	550	600	630	670						
Water pressure drop	kPa							8,8	9,9	13,3	15,2	17,1	19,2	9,9	11,2	15,4	17,3	19	20,7						
Water volume	l	0,6						0,6																	
Sound levels																									
Sound power level (overall)	dB(A)	42	44	52	56	59	61	42	44	52	56	59	61	41	43	51	55	58	60						
Electrical data, motor																									
Power input	W	54	64	92	109	125	148	54	64	92	109	125	148	54	63	90	106	122	144						
Input current	A	0,25	0,29	0,42	0,50	0,57	0,68	0,25	0,29	0,42	0,50	0,57	0,68	0,25	0,29	0,41	0,49	0,56	0,66						
FCEER [energy class]	2 pipes	54	[E]				63	[D]										NA							
FCCOP [energy class]	2 pipes	64	[E]				67	[E]										NA							
FCEER [energy class]	4 pipes	NA						46	[E]				57												
FCCOP [energy class]	4 pipes	NA						58	[E]				78												

\* Eurovent conditions: inlet air temperature = 27 °C db/47 % RH – inlet water temperature = 7 °C, water temperature difference = 5 K.

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

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



Eurovent certified values

## 6 - 42ET PERFORMANCE DATA

### 6.5 - Electrical data

**42ET 2-5 (AC multi-speed version)**

Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	G3 filter (Pa)
R1	0,36	82	133	479	0
	0,35	81	124	446	15
	0,35	81	115	414	26
	0,35	80	106	381	36
	0,35	79	97	348	45
	0,34	79	88	316	53
	0,34	78	79	283	59
	0,34	78	70	250	65
	0,33	77	60	218	71
	0,33	77	51	185	75
R2	0,28	65	118	424	0
	0,28	64	110	395	15
	0,28	64	102	366	25
	0,27	63	94	338	34
	0,27	62	86	309	42
	0,27	62	78	280	49
	0,27	61	70	251	55
	0,26	61	62	223	60
	0,26	60	54	194	65
	0,26	59	46	165	70
R3	0,24	54	104	375	0
	0,23	53	97	349	12
	0,23	53	90	323	22
	0,23	52	82	297	30
	0,23	52	75	271	37
	0,22	51	68	244	43
	0,22	51	61	218	49
	0,22	50	53	192	54
	0,22	50	46	166	59
	0,22	50	39	140	63
R4	0,20	45	90	324	0
	0,19	45	84	301	11
	0,19	44	77	279	18
	0,19	44	71	256	25
	0,19	44	65	233	30
	0,19	43	59	211	35
	0,19	43	52	188	40
	0,19	43	46	165	44
	0,19	43	40	143	49
	0,18	42	33	120	55
R5	0,14	31	63	225	0
	0,14	31	59	211	5
	0,14	31	55	197	9
	0,14	31	51	183	12
	0,14	31	47	169	15
	0,13	31	43	156	18
	0,13	31	39	142	20
	0,13	31	35	128	23
	0,13	30	32	114	25
	0,13	30	28	100	28
R6	0,26	60	53	191	0
	0,26	60	49	177	4
	0,26	59	46	166	7
	0,26	59	43	155	9
	0,26	59	40	143	11
	0,25	58	37	132	13
	0,25	58	34	121	15
	0,25	58	30	110	17
	0,25	57	27	99	19
	0,25	57	25	90	20

#### Key

**I** Current drawn by the fan motor

**P** Power input to the fan motor

**Qv** Air flow

**ESP** Available external static pressure

**R** Fixed speed

**42ET 2-6 (AC multi-speed version)**

Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	G3 filter (Pa)
R1	0,16	36	86	310	0
	0,16	36	79	283	11
	0,15	36	71	256	19
	0,15	35	63	228	26
	0,15	35	56	201	31
	0,15	35	48	174	36
	0,15	34	41	147	41
	0,15	34	33	119	47
	0,14	33	26	92	53
	0,14	33	18	65	61
R2	0,13	29	72	260	0
	0,12	29	66	238	7
	0,12	28	60	217	13
	0,12	28	54	195	17
	0,12	28	48	173	21
	0,12	28	42	152	25
	0,12	28	36	130	29
	0,12	28	30	108	34
	0,12	27	24	87	40
	0,12	27	18	65	48
R3	0,11	24	61	220	0
	0,11	24	56	202	7
	0,11	24	51	183	12
	0,11	24	46	165	15
	0,11	24	41	147	18
	0,10	24	36	128	21
	0,10	24	31	110	24
	0,10	24	25	92	29
	0,10	23	20	73	34
	0,10	23	15	55	42
R4	0,09	20	51	185	0
	0,09	20	47	169	5
	0,09	20	43	154	8
	0,09	20	38	138	10
	0,09	20	34	123	12
	0,09	20	30	107	15
	0,09	20	25	92	18
	0,09	20	21	76	21
	0,09	20	17	61	25
	0,09	20	13	45	31
R5	0,06	14	36	130	0
	0,06	14	33	120	3
	0,06	14	31	110	4
	0,06	14	28	100	5
	0,06	14	25	90	7
	0,06	14	22	80	8
	0,06	14	19	70	10
	0,06	14	17	60	12
	0,06	14	14	50	14
	0,06	14	11	40	17
R6	0,05	13	32	115	0
	0,05	13	30	107	2
	0,05	13	27	98	3
	0,05	13	25	90	4
	0,05	13	23	82	5
	0,05	13	20	73	6
	0,05	13	18	65	7
	0,05	13	16	57	9
	0,05	13	13	48	10
	0,05	13	11	40	12

## 6 - 42ET PERFORMANCE DATA

42ET 3-5 (AC multi-speed version)

Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	G3 filter (Pa)
R1	0,44	100	182	655	0
	0,43	99	170	613	19
	0,42	97	159	572	32
	0,42	96	147	530	43
	0,41	94	136	488	53
	0,40	93	124	447	62
	0,40	91	113	405	69
	0,39	90	101	363	77
	0,38	89	89	322	83
	0,38	87	78	280	90
	0,36	84	167	600	0
	0,36	82	156	562	18
R2	0,35	80	146	524	30
	0,34	79	135	487	41
	0,34	78	125	449	50
	0,33	76	114	411	58
	0,33	75	104	373	66
	0,32	73	93	336	73
	0,31	72	83	298	79
	0,31	71	72	260	86
	0,32	73	151	545	0
	0,31	71	142	512	16
	0,30	69	133	479	29
	0,29	68	124	447	39
R3	0,29	66	115	414	48
	0,28	65	106	381	56
	0,28	64	97	348	63
	0,27	62	88	316	69
	0,27	61	79	283	75
	0,26	61	69	250	81
	0,27	62	135	485	0
	0,27	61	127	458	14
	0,26	60	120	431	25
	0,26	60	112	403	34
	0,25	59	104	376	43
	0,25	58	97	349	50
R4	0,25	57	89	322	57
	0,24	56	82	294	63
	0,24	55	74	267	69
	0,23	54	67	240	75
	0,20	45	100	360	0
	0,19	45	95	343	8
	0,19	44	91	327	14
	0,19	44	86	310	20
	0,19	43	81	293	25
	0,19	43	77	277	31
	0,19	43	72	260	36
	0,18	42	68	243	41
R5	0,18	42	63	227	47
	0,18	42	58	210	52
	0,17	39	89	320	0
	0,17	39	85	306	7
	0,17	39	81	291	11
	0,17	39	77	277	16
	0,17	38	73	262	20
	0,17	38	69	248	25
	0,16	38	65	233	29
	0,16	38	61	219	34
	0,16	37	57	204	38
	0,16	37	53	190	42
R6	0,17	39	89	320	0
	0,17	39	85	306	7
	0,17	39	81	291	11
	0,17	39	77	277	16
	0,17	38	73	262	20
	0,17	38	69	248	25
	0,16	38	65	233	29
	0,16	38	61	219	34
	0,16	37	57	204	38
	0,16	37	53	190	42

42ET 3-6 (AC multi-speed version)

Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	G3 filter (Pa)
R1	0,31	71	121	435	0
	0,30	70	111	400	19
	0,30	69	101	365	31
	0,29	67	92	330	41
	0,29	66	82	295	48
	0,28	65	72	260	53
	0,28	64	63	225	58
	0,27	63	53	190	62
	0,27	61	43	155	67
	0,26	60	33	120	72
	0,25	58	101	365	0
	0,25	57	94	337	14
R2	0,24	56	86	308	24
	0,24	55	78	280	32
	0,24	55	70	252	39
	0,24	54	62	223	44
	0,23	53	54	195	49
	0,23	53	46	167	53
	0,22	51	38	138	58
	0,22	50	31	110	63
	0,21	49	85	305	0
	0,21	48	78	282	11
	0,21	47	72	259	19
R3	0,20	47	66	237	25
	0,20	46	59	214	30
	0,20	46	53	191	35
	0,20	45	47	168	39
	0,19	44	40	146	43
	0,19	44	34	123	47
	0,18	43	28	100	52
	0,18	41	71	255	0
	0,18	40	66	237	8
	0,17	40	61	218	13
	0,17	39	56	200	18
R4	0,17	39	50	182	22
	0,17	39	45	163	25
	0,17	39	40	145	28
	0,17	38	35	127	32
	0,16	38	30	108	36
	0,16	37	25	90	41
	0,12	29	50	180	0
	0,12	28	46	167	4
	0,12	28	43	154	6
	0,12	28	39	142	9
	0,12	28	36	129	11
R5	0,12	28	32	116	13
	0,12	28	29	103	15
	0,12	28	25	91	18
	0,12	28	22	78	20
	0,12	28	18	65	23
	0,11	25	42	150	0
	0,11	25	39	140	4
	0,11	25	36	130	5
	0,11	25	33	120	7
	0,11	25	31	110	7
	0,11	24	28	100	8
R6	0,10	24	25	90	9
	0,10	24	22	80	11
	0,10	24	19	70	12
	0,10	24	17	60	15

### Key

I Current drawn by the fan motor

P Power input to the fan motor

Qv Air flow

ESP Available external static pressure

R Fixed speed

## 6 - 42ET PERFORMANCE DATA

42ET 4-5 (AC multi-speed version)

Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	(Pa)
R1	0,68	156	310	1115	0
	0,67	154	290	1042	21
	0,66	151	269	969	34
	0,65	149	249	897	46
	0,64	146	229	824	56
	0,63	144	209	751	65
	0,62	142	188	678	74
	0,61	140	168	606	82
	0,60	138	148	533	89
	0,59	136	128	460	96
R2	0,57	130	292	1050	0
	0,56	128	273	983	18
	0,54	125	255	917	31
	0,53	123	236	850	42
	0,52	120	218	783	52
	0,51	118	199	717	61
	0,50	116	181	650	70
	0,49	114	162	583	78
	0,48	111	144	517	85
	0,48	109	125	450	93
R3	0,49	113	263	945	0
	0,48	110	247	889	17
	0,47	107	231	833	29
	0,46	105	216	777	40
	0,45	103	200	721	49
	0,44	101	185	664	58
	0,43	99	169	608	66
	0,42	97	153	552	73
	0,41	95	138	496	80
	0,41	94	122	440	86
R4	0,42	96	229	825	0
	0,41	94	217	781	15
	0,40	93	205	737	26
	0,40	91	193	693	35
	0,39	89	180	649	44
	0,38	88	168	606	52
	0,37	86	156	562	60
	0,37	85	144	518	67
	0,36	83	132	474	73
	0,36	82	119	430	79
R5	0,29	68	167	600	0
	0,29	67	160	576	8
	0,29	67	153	551	14
	0,29	66	146	527	20
	0,29	66	140	502	25
	0,28	65	133	478	31
	0,28	64	126	453	37
	0,28	64	119	429	42
	0,27	63	112	404	47
	0,27	62	106	380	52
R6	0,25	58	149	535	0
	0,25	58	143	514	6
	0,25	58	137	494	11
	0,25	58	131	473	15
	0,25	57	126	453	19
	0,25	57	120	432	23
	0,25	57	114	412	28
	0,25	56	109	391	32
	0,24	56	103	371	37
	0,24	56	97	350	41

### Key

I Current drawn by the fan motor

P Power input to the fan motor

Qv Air flow

ESP Available external static pressure

R Fixed speed

42ET 4-6 (AC multi-speed version)

Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	(Pa)
R1	0,38	88	215	775	0
	0,38	87	199	716	15
	0,38	86	182	656	25
	0,37	85	166	597	35
	0,37	84	149	537	44
	0,36	83	133	478	52
	0,36	82	116	418	61
	0,35	81	100	359	69
	0,35	80	83	299	77
	0,34	79	67	240	84
R2	0,29	68	176	635	0
	0,29	67	164	589	12
	0,29	67	151	543	20
	0,29	66	138	497	28
	0,28	65	125	451	35
	0,28	65	112	404	43
	0,28	64	100	358	50
	0,28	64	87	312	57
	0,27	63	74	266	64
	0,27	62	61	220	70
R3	0,24	55	151	545	0
	0,24	55	141	507	9
	0,24	55	130	468	15
	0,24	55	119	430	21
	0,24	54	109	392	27
	0,23	54	98	353	33
	0,23	54	88	315	39
	0,23	53	77	277	46
	0,23	53	66	238	52
	0,23	52	56	200	59
R4	0,19	43	126	455	0
	0,19	43	118	423	6
	0,19	43	109	392	10
	0,19	43	100	360	14
	0,19	43	91	328	18
	0,19	43	82	297	23
	0,19	43	74	265	28
	0,18	42	65	233	33
	0,18	42	56	202	37
	0,18	42	47	170	42
R5	0,14	32	92	330	0
	0,14	32	85	308	5
	0,14	32	79	286	7
	0,14	32	73	263	10
	0,14	32	67	241	12
	0,14	32	61	219	15
	0,14	32	55	197	17
	0,14	32	48	174	20
	0,14	32	42	152	23
	0,14	32	36	130	26
R6	0,10	22	68	245	0
	0,10	22	64	229	3
	0,10	22	59	213	4
	0,10	22	55	197	6
	0,10	22	50	181	7
	0,10	22	46	164	9
	0,10	22	41	148	10
	0,10	22	37	132	12
	0,10	22	32	116	13
	0,10	22	28	100	15

## 6 - 42ET PERFORMANCE DATA

42ET 5-5 (AC multi-speed version)

Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	G3 filter (Pa)
R1	0,74	171	368	1325	0
	0,73	167	343	1233	16
	0,71	164	317	1142	28
	0,70	160	292	1050	40
	0,68	157	266	958	51
	0,67	155	241	867	61
	0,66	152	215	775	71
	0,65	149	190	683	81
	0,64	147	164	592	90
	0,63	144	139	500	99
	0,61	140	318	1145	0
	0,59	136	298	1072	18
R2	0,58	133	278	999	29
	0,57	130	257	927	39
	0,55	127	237	854	49
	0,54	125	217	781	58
	0,53	122	197	708	67
	0,52	120	177	636	75
	0,51	118	156	563	83
	0,50	116	136	490	91
	0,52	119	281	1010	0
	0,51	117	264	949	16
	0,50	114	247	888	26
	0,49	112	230	827	36
R3	0,48	110	213	766	45
	0,47	108	196	704	53
	0,46	106	179	643	61
	0,45	104	162	582	69
	0,45	102	145	521	77
	0,44	101	128	460	84
	0,43	100	243	875	0
	0,43	98	229	824	14
	0,42	97	215	774	22
	0,41	95	201	723	30
	0,41	94	187	673	38
	0,40	93	173	622	46
R4	0,40	91	159	572	54
	0,39	90	145	521	61
	0,39	89	131	471	68
	0,38	88	117	420	75
	0,30	69	171	615	0
	0,30	69	162	584	8
	0,30	69	154	554	13
	0,30	68	145	523	17
	0,30	68	137	493	22
	0,29	68	128	462	27
	0,29	67	120	432	32
	0,29	67	111	401	36
R5	0,29	66	103	371	41
	0,29	66	94	340	46
	0,26	59	151	545	0
	0,26	59	144	518	7
	0,26	59	136	491	10
	0,26	59	129	463	14
	0,26	59	121	436	18
	0,25	58	114	409	21
	0,25	58	106	382	25
	0,25	58	98	354	29
	0,25	58	91	327	33
	0,25	57	83	300	37
R6	0,26	59	151	545	0
	0,26	59	144	518	7
	0,26	59	136	491	10
	0,26	59	129	463	14
	0,26	59	121	436	18
	0,25	58	114	409	21
	0,25	58	106	382	25
	0,25	58	98	354	29
	0,25	58	91	327	33
	0,25	57	83	300	37

42ET 5-6 (AC multi-speed version)

Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	G3 filter (Pa)
R1	0,62	142	326	1175	0
	0,60	138	303	1090	20
	0,58	134	279	1005	32
	0,57	131	256	920	43
	0,56	129	232	835	55
	0,55	127	208	750	66
	0,54	124	185	665	76
	0,53	122	161	580	86
	0,52	120	138	495	96
	0,51	118	114	410	105
	0,52	119	293	1055	0
	0,50	116	273	982	19
R2	0,49	112	253	909	30
	0,48	109	232	837	41
	0,46	107	212	764	52
	0,45	105	192	691	62
	0,45	102	172	618	71
	0,44	101	152	546	80
	0,43	99	131	473	89
	0,42	97	111	400	97
	0,45	104	260	935	0
	0,44	101	243	873	17
	0,43	98	225	812	28
	0,42	96	208	750	39
R3	0,41	94	191	688	49
	0,40	92	174	627	59
	0,39	90	157	565	68
	0,38	88	140	503	76
	0,38	86	123	442	84
	0,37	84	106	380	92
	0,39	89	224	805	0
	0,38	87	210	758	14
	0,37	86	197	711	23
	0,37	84	184	663	32
	0,36	83	171	616	41
R4	0,35	81	158	569	49
	0,35	80	145	522	56
	0,34	79	132	474	64
	0,34	78	119	427	71
	0,33	76	106	380	77
	0,28	63	154	555	0
	0,27	63	146	527	8
	0,27	63	138	498	13
	0,27	62	131	470	19
	0,27	62	123	442	24
	0,27	62	115	413	29
R5	0,27	61	107	385	34
	0,27	61	99	357	39
	0,26	61	91	328	44
	0,26	60	83	300	49
	0,24	54	133	480	0
	0,24	54	127	458	9
	0,23	54	121	436	12
	0,23	54	115	413	16
	0,23	54	109	391	19
	0,23	54	102	369	22
	0,23	53	96	347	26
	0,23	53	90	324	29
R6	0,23	53	84	302	33
	0,23	53	78	280	37

### Key

I Current drawn by the fan motor

P Power input to the fan motor

Qv Air flow

ESP Available external static pressure

R Fixed speed

## 6 - 42ET PERFORMANCE DATA

42ET 555 (AC multi-speed version)

Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	G3 filter (Pa)
R1	0,71	163	325	1170	0
	0,69	159	303	1092	18
	0,68	156	282	1014	29
	0,67	153	260	937	39
	0,66	151	239	859	50
	0,65	149	217	781	60
	0,64	147	195	703	70
	0,63	145	174	626	79
	0,63	144	152	548	89
	0,62	142	131	470	98
	0,58	133	293	1055	0
	0,57	130	273	982	19
R2	0,56	128	253	909	30
	0,55	125	232	837	41
	0,54	123	212	764	52
	0,53	121	192	691	63
	0,52	119	172	618	73
	0,51	117	152	546	83
	0,50	115	131	473	93
	0,50	116	136	490	90
	0,50	114	263	945	0
	0,49	112	246	884	17
	0,48	110	229	823	28
	0,47	108	212	762	38
R3	0,46	106	195	701	49
	0,45	104	178	639	58
	0,44	102	161	578	67
	0,44	101	144	517	76
	0,43	99	127	456	85
	0,43	99	128	460	84
	0,43	98	228	820	0
	0,42	96	214	769	15
	0,41	95	200	719	24
	0,41	94	186	668	33
	0,40	92	172	618	42
R4	0,39	91	158	567	51
	0,39	89	144	517	60
	0,38	88	129	466	68
	0,38	87	115	416	76
	0,38	87	117	420	75
	0,29	67	164	590	0
	0,29	67	155	559	8
	0,29	67	147	529	13
	0,29	66	138	498	19
	0,29	66	130	468	24
	0,29	66	121	437	29
R5	0,28	65	113	407	34
	0,28	65	104	376	40
	0,28	65	96	346	45
	0,28	65	94	340	46
	0,25	58	139	500	0
	0,25	58	131	473	8
	0,25	58	124	446	12
	0,25	58	116	418	17
	0,25	58	109	391	21
	0,25	58	101	364	26
	0,25	57	94	337	31
	0,25	57	86	309	35
R6	0,25	57	78	282	40
	0,25	57	83	300	37

### Key

I Current drawn by the fan motor

P Power input to the fan motor

Qv Air flow

ESP Available external static pressure

R Fixed speed

42ET 556 (AC multi-speed version)

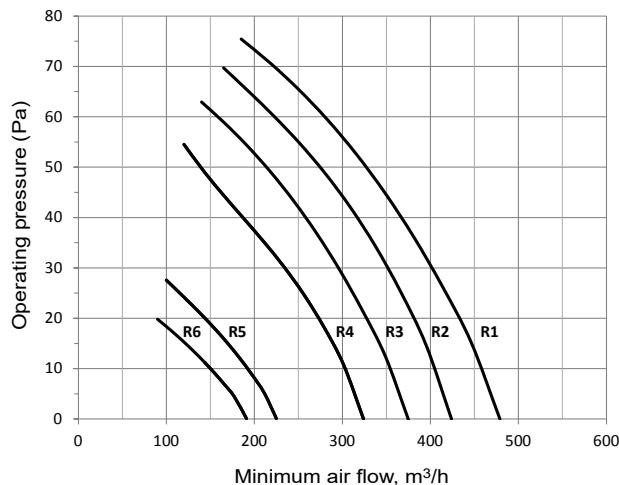
Speed	I	P	Qv	Qv	ESP
	(A)	(W)	(l/s)	(m³/h)	G3 filter (Pa)
R1	0,62	142	313	1125	0
	0,59	136	290	1044	19
	0,58	133	268	964	31
	0,57	130	245	883	42
	0,56	128	223	803	54
	0,55	126	201	722	65
	0,54	124	178	642	75
	0,53	122	156	561	85
	0,52	120	133	481	95
	0,51	118	111	400	104
	0,52	120	281	1010	0
	0,50	116	261	941	18
R2	0,49	112	242	872	29
	0,48	110	223	803	40
	0,47	107	204	734	51
	0,46	105	185	666	61
	0,45	103	166	597	70
	0,44	101	147	528	79
	0,43	99	127	459	88
	0,42	97	108	390	96
	0,45	104	247	890	0
	0,44	101	231	833	17
	0,43	98	216	777	28
	0,42	96	200	720	38
R3	0,41	94	184	663	48
	0,40	92	169	607	57
	0,39	90	153	550	66
	0,39	89	137	493	75
	0,38	87	121	437	82
	0,37	85	106	380	89
	0,39	89	214	770	0
	0,38	87	202	726	13
	0,37	86	189	681	23
	0,37	84	177	637	31
	0,36	83	165	592	40
R4	0,35	82	152	548	48
	0,35	80	140	503	55
	0,34	79	127	459	63
	0,34	78	115	414	69
	0,33	77	103	370	76
	0,28	63	147	530	0
	0,27	63	140	504	8
	0,27	63	133	479	13
	0,27	62	126	453	18
	0,27	62	119	428	22
	0,27	62	112	402	27
R5	0,27	62	105	377	32
	0,27	61	98	351	37
	0,26	61	90	326	42
	0,26	60	83	300	47
	0,24	54	129	465	0
	0,24	54	123	442	6
	0,24	54	117	419	9
	0,23	54	110	397	13
	0,23	54	104	374	16
	0,23	54	98	351	20
	0,23	54	91	328	24
	0,23	53	85	306	28
R6	0,23	53	79	283	32
	0,23	53	72	260	36

## 6 - 42ET PERFORMANCE DATA

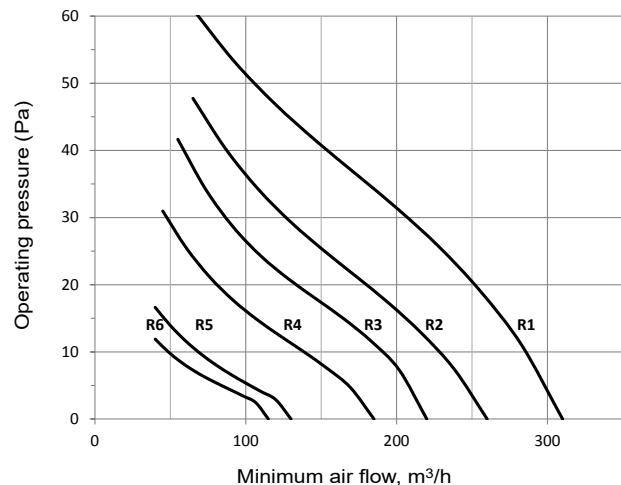
### 6.6 - Air flow data

Static pressure available (Pa) as a function of the air flow, m<sup>3</sup>/h (l/s)

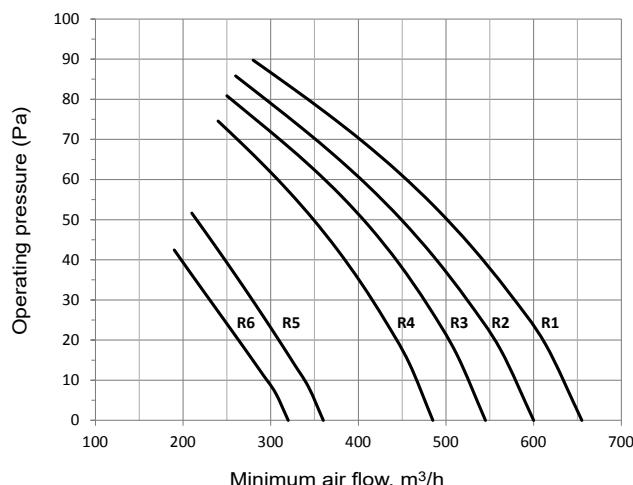
**42ET 2-5 (with G3 filter)**



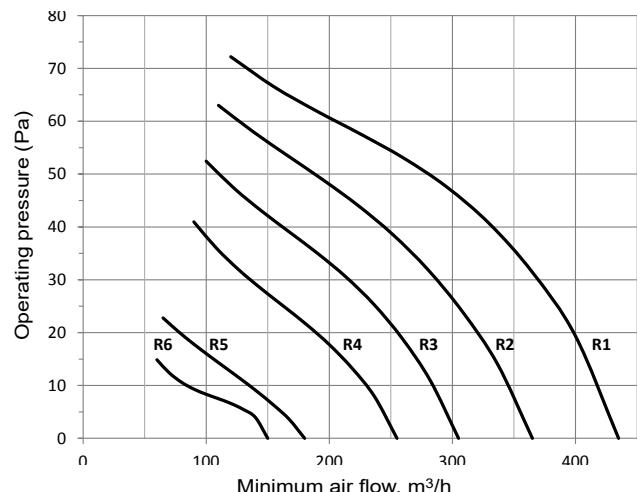
**42ET 2-6 (with G3 filter)**



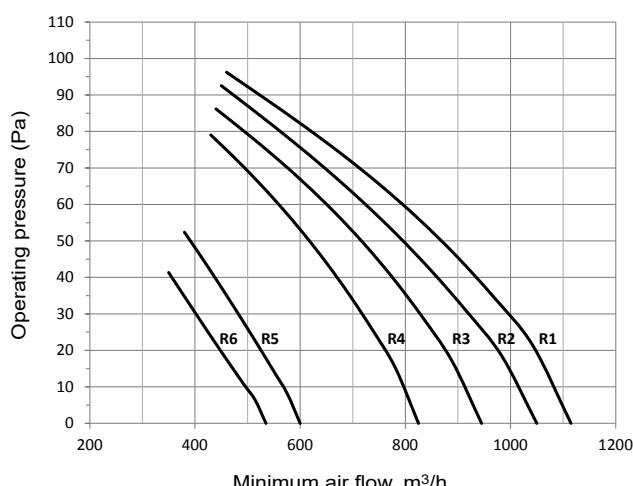
**42ET 3-5 (with G3 filter)**



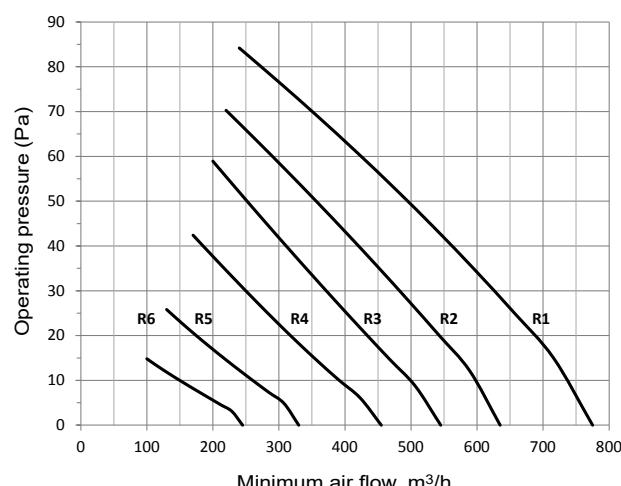
**42ET 3-6 (with G3 filter)**



**42ET 4-5 (with G3 filter)**

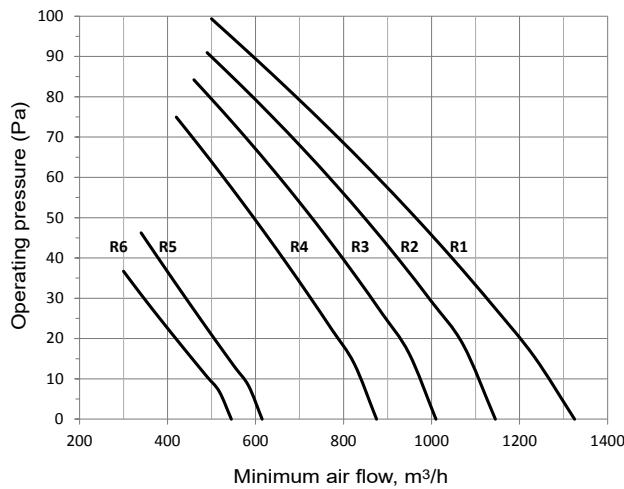


**42ET 4-6 (with G3 filter)**

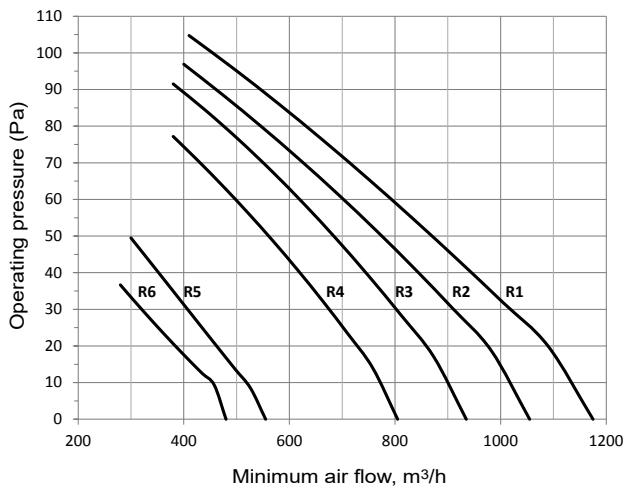


## 6 - 42ET PERFORMANCE DATA

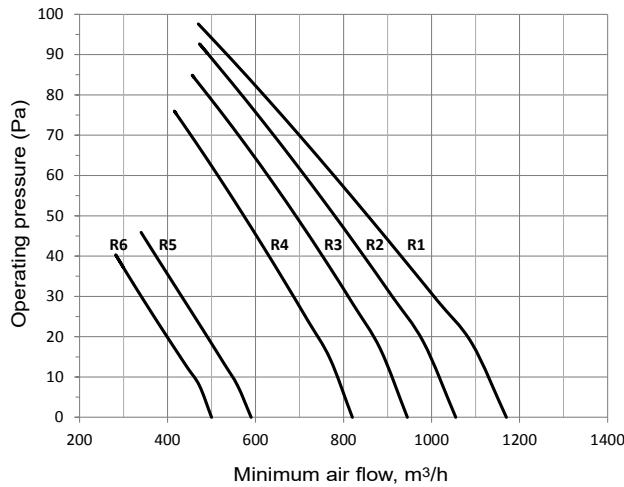
**42ET 5-5 (with G3 filter)**



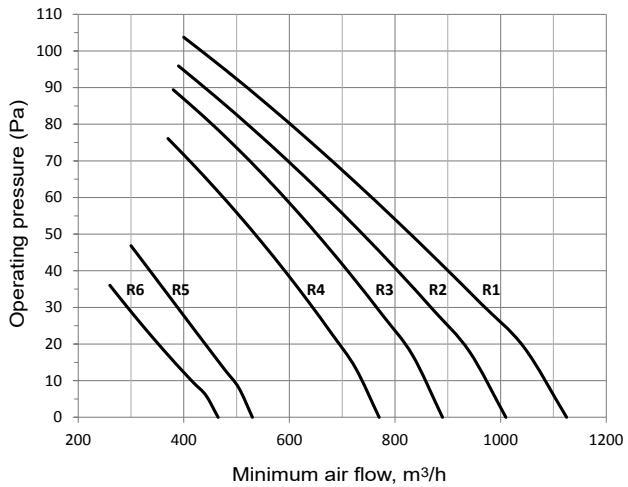
**42ET 5-6 (with G3 filter)**



**42ET 555 (with G3 filter)**



**42ET 556 (with G3 filter)**



## 7 - OPERATING LIMITS

	Cooling mode	Heating mode
Water circuit	Min. inlet Temperature > 5°C	Max. inlet Temperature < 80°C
	< 40% ethylene / propylene glycol	< 40% ethylene / propylene glycol
	Water side pressure < 15.5 bar (1550 kPa)	Water side pressure < 15.5 bar (1550 kPa)
Ambient temperature and humidity	T < 27°C / 65% relative humidity or Humidity weight < 14.7 g/kg dry air	T < 40°C
Supply air temperature	T > 12°C with maximum ambient humidity conditions (14.7 g/kg dry air)	T < 60°C
		Recommandation to avoid stratification T < 35°C
AC motor - Electrical input	Min: 207V	Min: 207V
	Max: 253 V	Max: 253 V
	60 or 50 Hz -1ph	60 or 50 Hz -1ph

**NOTE:** All performances data certified by Eurovent are based on 50Hz application.

Carrier doesn't ensure the same performances when the unit operates at 60 Hz; the RPM and power input of the fan-motor are usually higher.



Order No.: 10414, 11.2020. Supersedes order No.: 10414, 03.2019.

Manufacturer reserves the right to change any product specifications without notice.

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Manufactured by: CIAT SA, Culoz, France.