

Detailed Performance for 42EM10 - 1-4dr

Project: Termostudio DS HANKA
Prepared By: Paweł Sobolewski

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02:05



42EM Ductable in room Fan Coil with Multi Speed Motor

System Operation: 2 Pipe Cooling Only

Selection Conditions 42EM10EBGDAA-V-Q

Cooling Mode

Room Air Temperature (db):..... **26,0** °C
Room Air Relative Humidity:..... **54,1** %
Return Air Temperature (db):..... **27,0** °C
Return Air Relative Humidity:..... **51,0** %
Entering Fluid Temperature:..... **8,0** °C
Fluid Delta T:..... **5,0** °K
Fluid Type:..... **Water**

Sound Attenuation

Room Attenuations:..... **12** dB
Ceiling and System Attenuations:..... **10** dB

System Curve Design

External Static Pressure:..... **30** Pa
External Static Pressure Apply To: **All Fan Speeds**

Performance 42EM10EBGDAA-V-Q

Fan Speed		High Speed		Medium Speed		Low Speed	
Multi Speed units		R1	R2	R3	R4	R5	R6
Air Flow Rate	m3/h	538	459	407	344	281	236
External Static Pressure	Pa	30	30	30	30	30	30
Cooling Mode							
Total Capacity	kW	3,24	2,88	2,62	2,29	1,93	1,66
Sensible Capacity	kW	2,39	2,10	1,89	1,64	1,37	1,17
Supply Air Temperature	°C	13,5	13,2	12,9	12,6	12,3	12,0
Fluid flow rate	m3/h	0,56	0,49	0,45	0,39	0,33	0,29
Fluid Pressure Drop	kPa	31	25	21	16	12	9
FCEER Class		C					
Electric motor consumption	W	114	82	70	58	50	44
Noise level							
Lw : Sound power level	dB(A)	56	53	50	47	45	43
Lp: Sound pressure level	dB(A)	34	31	28	25	23	21
NC level		26	23	19	16	15	13
NR level		28	25	21	18	17	15
Dimensions (HxWxD)	mm	250x850x730					

Note:

Sound Power Levels according to ISO 3741. Sound pressure level, NR and NC are based upon hypothetical acoustic attenuation for the room and air diffusion sub-system.

The accuracy of the above data is +/-2dB(A). All dimensions include Water valve factory fitted as maximum unit dimensions, for installation safety.

If the product is supplied without a Carrier control device, verification of EMC conformity is the responsibility of the installer or control integrator.



CARRIER participates in the ECP program for Fan Coil Units (Ducted and non Ducted). Check ongoing validity of certificate:
<http://www.eurovent-certification.com>

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Accessories and Installed Options 42EM10EBGDAA-V-Q

Part Number	Description
Base Unit	
42EM10EBGDAA-V-Q	
Frame Model:	Modular
Return Plenum:	Without Spigots
Supply Plenum:	1 Spigot
Coil Hand:	Left
Power:	None
Hydronic Fittings:	4 Way Valves (3 Way with by-pass)
Indoor Air Quality:	G3
Control:	NTC (Aquasmart compatible)
Fresh Air:	Without Fresh Air