

## Detailed Performance for 42EM10 - 4

Project: Termostudio DS HANKA  
Prepared By: Paweł Sobolewski

02-19-2015  
02:10



### 42EM Ductable in room Fan Coil with Multi Speed Motor

System Operation: 2 Pipe Cooling Only

#### Selection Conditions 42EM10EAMCAA-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 42EM10EAMCAA-V-Q

Fan Speed		High Speed		Medium Speed		Low Speed	
Multi Speed units		R1	R2	R3	R4	R5	R6
Air Flow Rate	m3/h	470	412	370	319	263	223
External Static Pressure	Pa	30	30	30	30	30	30
<b>Cooling Mode</b>							
Total Capacity	kW	2,93	2,65	2,43	2,15	1,82	1,58
Sensible Capacity	kW	2,14	1,91	1,74	1,53	1,29	1,11
Supply Air Temperature	°C	13,2	12,9	12,7	12,5	12,2	12,0
Fluid flow rate	m3/h	0,50	0,45	0,42	0,37	0,31	0,27
Fluid Pressure Drop	kPa	36	30	25	20	14	11
<b>FCEER Class</b>		<b>C</b>					
Electric motor consumption	W	112	81	69	58	50	43
<b>Noise level</b>							
Lw : Sound power level	dB(A)	55	52	49	45	43	42
Lp: Sound pressure level	dB(A)	33	30	27	23	21	20
NC level		25	22	19	15	13	12
NR level		27	24	21	17	15	14
Dimensions (HxWxD)	mm	250x850x1024					

##### 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 42EM10EAMCAA-V-Q

Part Number	Description
<b>Base Unit</b>	
42EM10EAMCAA-V-Q	
Frame Model:	Modular
Return Plenum:	1 Spigot
Supply Plenum:	1 Spigot
Coil Hand:	Right
Power:	None
Hydronic Fittings:	2 Way Valve
Indoor Air Quality:	G3
Control:	NTC (Aquasmart compatible)
Fresh Air:	Without Fresh Air