

**ErP Product fiche for RVU according to EU 1254/2014  
comfort ventilation unit Meltem M-WRG**

<b>supplier's name</b>	Meltem Wärmerückgewinnung GmbH & Co. KG												
<b>supplier model</b>	M-WRG-S M-WRG-S/Z-S M-WRG-S/Z-T M-WRG-S M M-WRG-S 485	M-WRG-S/Z-T-F M-WRG-S/Z-T-FC M-WRG-S M-F M-WRG-S M-FC M-WRG-S 485-TF M-WRG-S 485-TFC	M-WRG-S M-WRG-S/Z-S M-WRG-S/Z-T M-WRG-S M M-WRG-S 485	M-WRG-S/Z-T-F M-WRG-S/Z-T-FC M-WRG-S M-F M-WRG-S M-FC M-WRG-S 485-TF M-WRG-S 485-TFC	M-WRG-S M-WRG-S/Z-S M-WRG-S/Z-T M-WRG-S M M-WRG-S 485	M-WRG-S/Z-T-F M-WRG-S/Z-T-FC M-WRG-S M-F M-WRG-S M-FC M-WRG-S 485-TF M-WRG-S 485-TFC	without sensors without duct connection pipe	with sensor without duct connection pipe	without sensors with channel connection pipe	with sensor with channel connection pipe			
<b>SEC [kWh/(m²a)] specific energy consumption (cold, average, warm)</b>	-54,2	-26,2	-7,5	-68,6	-35,9	-14,5	-57,4	-28,2	-8,8	-70,6	-37,0	-15,2	
<b>SEC class</b>	A	B	F	A	A	E	A	B	F	A	A	E	
<b>typology</b>	..RVU bidirectional (BVU)			..RVU bidirectional (BVU)			..RVU bidirectional (BVU)			..RVU bidirectional (BVU)			
<b>type of drive installed</b>	variable speed			variable speed			variable speed			variable speed			
<b>type of heat recovery system</b>	recuperative			recuperative			recuperative			recuperative			
<b>thermal efficiency of heat recovery <math>\eta_5</math> [%]</b>	59,7			59,7			59,7			59,7			
<b>maximum flow rate [m³/h]</b>	97			97			97			97			
<b>max. electric power input of the fan drive [W]</b>	37			37			37			37			
<b>sound power level LWA [dB(A)]</b>	SM <sup>1</sup> /FM <sup>2</sup> : 42/43			SM <sup>1</sup> /FM <sup>2</sup> : 42/43			WI <sup>3</sup> : 38			WI <sup>3</sup> : 38			
<b>reference flow rate <math>q_5</math> [m³/s / m³/h]</b>	0,01916 / 69			0,01916 / 69			0,01916 / 69			0,01916 / 69			
<b>reference pressure difference [Pa]</b>	0			0			58			58			
<b>specific power input (SPI) [W/(m³/h)]</b>	0,24			0,24			0,25			0,25			
<b>control factor and control typology</b>	1 Manual control			0,65 Local demand control			1 Manual control			0,65 Local demand control			
<b>max. internal leakage rate / max. external leakage rate [%]</b>	Inside: 0,0 Outside: 2,5			Inside: 0,0 Outside: 2,5			Inside: 0,0 Outside: 2,5			Inside: 0,0 Outside: 2,5			
<b>mixing rate [%]</b>	U2: 3,0			U2: 3,0			-			-			
<b>position, description of visual/acoustically filter warning</b>	Message on the device or control panel, runtime-controlled filter monitoring, regular filter changes are important for the performance/ energy efficiency of the device!			Message on the device or control panel, runtime-controlled filter monitoring, regular filter changes are important for the performance/ energy efficiency of the device!			Message on the device or control panel, runtime-controlled filter monitoring, regular filter changes are important for the performance/ energy efficiency of the device!			Message on the device or control panel, runtime-controlled filter monitoring, regular filter changes are important for the performance/ energy efficiency of the device!			
<b>internet address</b>	www.meltem.com			www.meltem.com			www.meltem.com			www.meltem.com			
<b>airflow sensitivity to pressure variations at -20 Pa and +20 Pa [%]</b>	S1: 4,5			S1: 4,5			-			-			
<b>indoor / outdoor air tightness [m³/h]</b>	outward: 2,9 inward: 2,9			outward: 2,9 inward: 2,9			-			-			
<b>AEC annual electricity consumption [kWh/(m²a)]</b>	3,8			1,9			3,5			1,7			
<b>AHS annual heating saved (cold, average, warm) [kWh/(m²a)]</b>	68,2	34,9	15,8	77,9	39,8	18,0	70,8	36,2	16,4	79,5	40,7	18,4	

<sup>1</sup> surface-mount, <sup>2</sup> flush-mount, <sup>3</sup> wall-integrated U<sup>2</sup> with duct connection Exhaust air side

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supplier model	M-WRG-S M-WRG-S/Z-S M-WRG-S/Z-T M-WRG-S M  with external radio sensor without duct connection pipe	M-WRG-S M-WRG-S/Z-S M-WRG-S/Z-T M-WRG-S M  with external radio sensor with channel connection pipe								
SEC [kWh/(m²a)] specific energy consumption (cold, average, warm)	-68,6	-35,9	-14,5	-70,6	-37,0	-15,2				
SEC class	A	A	E	A	A	E				
typology	..RVU bidirectional (BVU)			.. RVU bidirectional (BVU)						
type of drive installed	variable speed			variable speed						
type of heat recovery system	recuperative			recuperative						
thermal efficiency of heat recovery $\eta_5$ [%]	59,7			59,7						
maximum flow rate [m³/h]	97			97						
max. electric power input of the fan drive [W]	37			37						
sound power level LWA [dB(A)]	SM <sup>1</sup> /FM <sup>2</sup> :42/43			WI <sup>3</sup> : 38						
reference flow rate $q_5$ [m³/s / m³/h]	0,01916 / 69			0,01916 / 69						
reference pressure difference [Pa]	0			58						
specific power input (SPI) [W/(m³/h)]	0,24			0,25						
control factor and control typology	0,65 Local demand control			0,65 Local demand control						
max. internal leakage rate /	Inside: 0,0			Inside: 0,0						
max. external leakage rate [%]	Outside: 2,5			Outside: 2,5						
mixing rate [%]	U2: 3,0			-						
position, description of visual filter warning	Message on the device or control panel, runtime-controlled filter monitoring, regular filter changes are important for the performance/ energy efficiency of the device!			Message on the device or control panel, runtime-controlled filter monitoring, regular filter changes are important for the performance/ energy efficiency of the device!						
internet address	www.meltem.com			www.meltem.com						
airflow sensitivity to pressure variations at -20 Pa and +20 Pa [%]	S1: 4,5			-						
indoor / outdoor air tightness [m³/h]	outward: 2,9 inward: 2,9			-						
AEC annual electricity consumption [kWh/(m²a)]	1,9			1,7						
AHS annual heating saved (cold, average, warm) [kWh/(m²a)]	77,9	39,8	18,0	79,5	40,7	18,4				

<sup>1</sup> surface-mount, <sup>2</sup> flush-mount, <sup>3</sup> wall-integrated U<sup>2</sup> with duct connection Exhaust air side