Scambiatori di calore aria/aria
Luft/Luft-Wärmetauscher

Air/air heat exchanger
Échangeurs thermique air/air

EASY40_H31_L **EASY40_H31_H**	**40 W/k** 230V-1- 50-60 Hz	**EASY40_E21_L** **EASY40_E21_H**	**40 W/k** 115V -1- 50-60 Hz

Application:

The air/air heat exchangers are designed and built to extract heat from the elecrical panels using ambient air as the refrigerant fluid.

In environments heavily polluted by suspended dust and7or oil, where the use to fans to cool the electrical panels is not recomended, the air/air exchangers are an excellent solution for cooling the cabinets while maintaining a high degree of protection of the switchboard: IP55

The heat exchanges is obtained by circulating the air of the switchgear through an extremely efficient cross-flow aluminum exchanger. Through the plates ok the exchanger, the warmer air of the switchgear transfers heat to the cooler ambient air.

- the dust present in the environment cannot penetrate the cabinet
- the crossed flow exchanger guarantees maximum efficency
- operating costs are reduced to a minimum.

The air/air exchangers undoubtedly solve the problem ok overheating of the electrical panels in an effective, economic and ergonomically advantageous way.

Installation:

The preassembled coupling gasket, the complete assembly equipment supplied and the quick connector for the electrical connection facilitate installation almost eliminating execution times.

In models equipped with a thermostat (H_VERSION) the thermostat adjustment screw, accessible through a special slot facing inside the panel, allows the adjustment of the starting temperature of the external fan without having to open the exchanger cover.

The models with the _H code ending are equipped, as standard, with a thermostat, adjustable, preset with set=35 °C, the models with _L extension are not equipped with a thermostat.

Maintenance:

The only maintenance consists in the periodic dusting of the plate exchanger.

S.I.M. Engineering S.r.l. - Via B. COLLEONI 35/37– 24060 GORLAGO (BG) ITALY – tel 39.035.882634 - fax 39.035.4821146 info@simengineering.it
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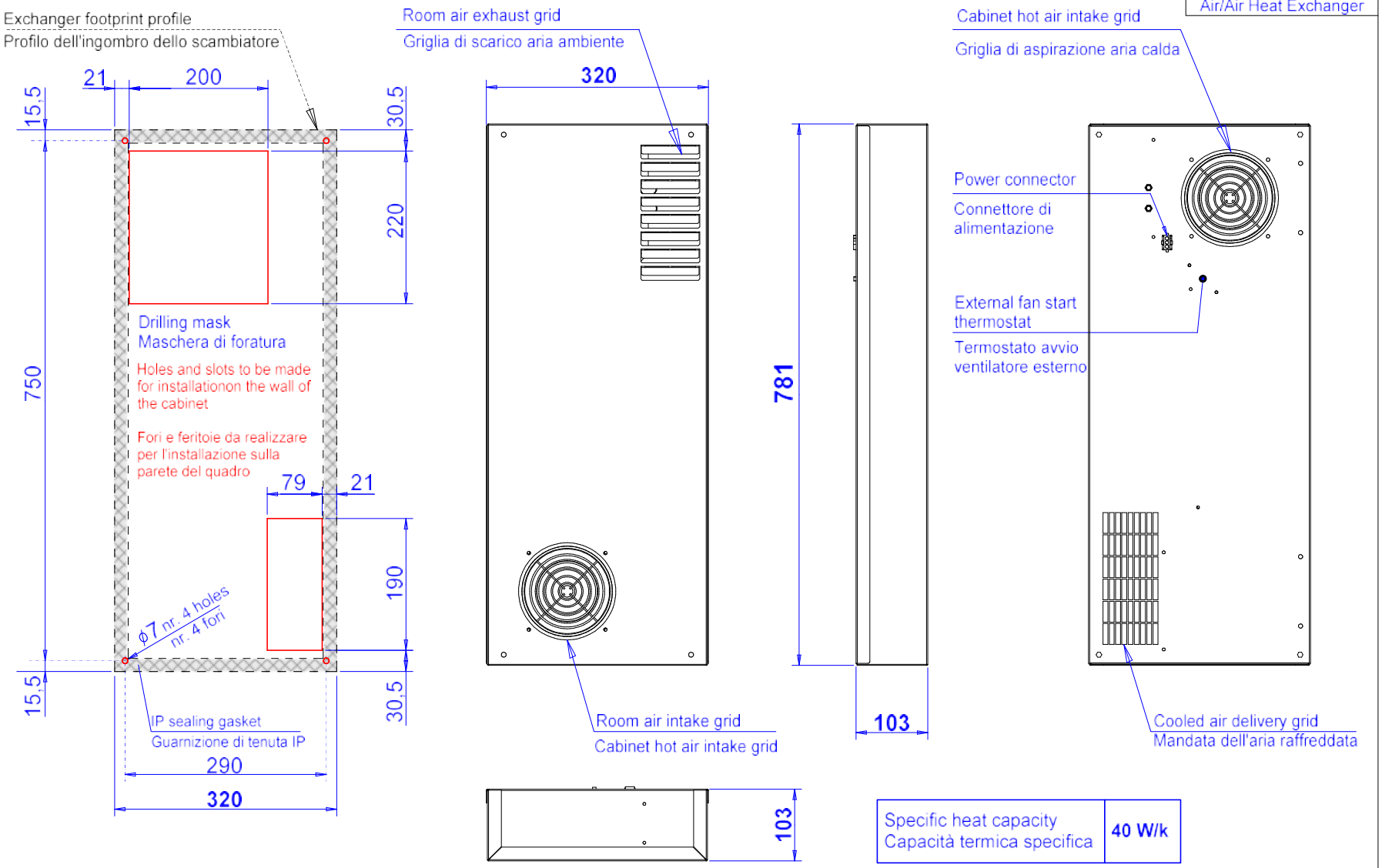
EASY40
Air/Air Heat Exchanger



Specific heat capacity Capacità termica specifica	40 W/k

Disegno N° :	Formato : A3	Materiale:	Verdello li: 24/03/2017	Overall dimensions and drilling template Dimensioni di ingombro e maschera di foratura	**S.I.M. Engineering s.r.l.** Via B. Colleoni, 35-37 - 24060 Gorlago (BG) - Italy Tel +39 035 88.26.34 - Fax +39 035 482.11.46
Sostituisce il N° :	SCALA 0,200	Spessore:	Disegnato da: Rovelli		
Sostituito dal N° :		Verniciatura:	Approvato da:		

Caratteristiche tecniche - Technical data - Technische Daten - Données techniques

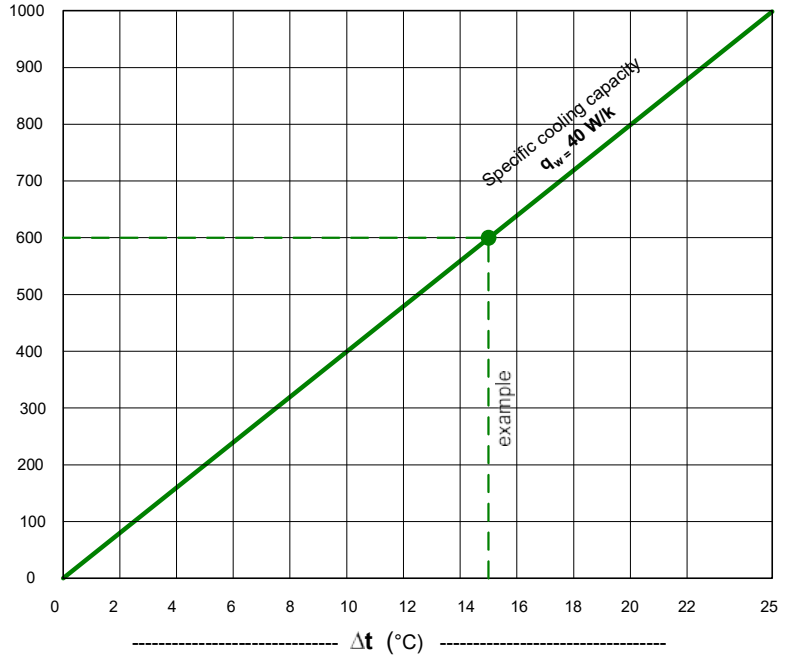
Codice articolo Product code Produkt code Code du produit		**EASY40_H31_***	**EASY40_E21_***
Capacità frigorifera – Cooling capacity Nutzkühlleistung – Puissance frigorifique	W/k	**40**	
Temperatura ambiente Ambient temperature Umgebungs-temperatur Température ambiante	°C	- 5 …… +50	
Temperatura armadio Enclosure temperature Temperatur Schaltschrank Température de l'armoire	°C	+20 …… +50	
Tensione nominale Rated voltage Nennspannung Tension nominale	V / Hz ~	230V 50–60 Hz 1~	115V 60 Hz 1~
Corrente Rated current Nennstromm Courant nominale	A	(50/60 Hz) 0,5/0,6	1,2
Potenza assorbita Input power Nennleistung Puissance absorbée	W	(50/60 Hz) 104/130	140
Fusibile T - Pre-Fuse T Absicherung T - fusibile T	T	2	4
Refrigerante Refrigerant Kältemittel Refrigerant		aria – air – Luft – air	
Grado di protezione Protection Category Schutzart Degré de protection	IP	EN 60529 55	
Portata d'aria effettiva True air flow rate Luftstromm Débit de l'air réel	mc/h	450	
Pressione sonora Noise level Geräusch-pegel Niveau sonore	dB (A)	55	
Peso Weight Gewicht Poids	Kg	12	
Colore Colour Farbton Coloris	RAL	7035 (other colours or stainless steel on request)	
Dimensioni L x H x P Dimensions W x H x D Abmessungen B x H x T Dimensions L x H x P	mm.	320 x 780 x 103	
Termostato elettromeccanico - Electromechanical thermostat Elektromechanischer Thermostat - Thermostat électromécanique Range +20 ...+35 °C factory setting +30 °C	*	ver. **_L** no ver. **_H** yes	ver. **_L** no ver. **_H** yes

Scambiatori di calore aria/aria	Diagramma della curva caratteristica
Air/air heat exchanger	Performance diagram
Luft/Luft-Wärmetauscher	Kennlinienfeld
Échangeurs thermique air/air	Diagramme de la puissance specifique

Scambiatore aria-aria Air-to-air heat exchanger Luft-Luft-Wärmetauscher Echangeur de chaleur air-air Intercambiador aire-aire	modello - type - artikel - article - modelo **EASY 40**

Capacità frigorifera - Cooling capacity - Kälteleistung
Puissance frigorique - Potencia de refrigeración

Qk (W) = **Δt** (°C) **x** q_w (W/k) in example **Δt** 15 x q_w 40 = **600W**



Δt (°C)
Differenza fra la tempertura nell'armadio e la temperatura dell'ambiente
Difference between the air temperature in the closet and the ambient temperature
Unterschied zwischen der Lufttemperatur im Schrank und der Umgebungstemperatur
Différence entre la température de l'air dans le placard et la température ambiante
Diferencia entre la temperatura del aire en el armario y la temperatura ambiente

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