



ITEM: Pos. 2 - E1W07G1

PROJECT: 0

Fan:		
Fan	KB	
Type	40R2	
Impeller diameter	1096	[mm]
Class	3	
Arrangement	4	
Discharge position	?	

Tecnichal description:		
Fluid	Air	
Air Flow	38500	[m <sup>3</sup> /h]
Operating temperature	180	[C°]
Design temperature	200	[C°]
Altitude	0	[m]
Density	0,8	[kg/m <sup>3</sup> ]
Static pressure	3000	[Pa] @ ps=0,78 kg/m <sup>3</sup>
Dynamic pressure	268	[Pa] @ ps=0,78 kg/m <sup>3</sup>
Total pressure	3268	[Pa] @ ps=0,78 kg/m <sup>3</sup>
Absorbed power	41,5	[kW] @ ps=0,78 kg/m <sup>3</sup>
Static pressure	4615	[Pa] @ ps= 1,2 kg/m <sup>3</sup>
Dynamic pressure	413	[Pa] @ ps= 1,2 kg/m <sup>3</sup>
Total pressure	5028	[Pa] @ ps= 1,2 kg/m <sup>3</sup>
Absorbed power	63,8	[kW] @ ps= 1,2 kg/m <sup>3</sup>
Speed	1480	[rpm]
Sound pressure	88,0	[dB(A)] @1 m
Impeller moment of Inertia	26,8	[kgm <sup>2</sup> ]
Efficiency	84,2	[%]
Outlet velocity	26,2	[m/s]
Peripheral speed	84,9	[m/s]
Max speed	1496	rpm
Max torque	267,9	Nm

ERP:	
Measurement Category	(B, Totale)
Overall efficiency	79,8
Target efficiency	64,0
Fan efficiency	78,2
Inverter	VSD non installato

Regulation:
CE Regulation 2006/42
Regulation 2009/125/CE
AMCA 210 - Laboratory Methods of Testing Fans
ISO 14694-Industrial fans-Specifications for balance quality and vibration
ISO 13347-Industrial fans-Determination of fan sound power levels

Motor:		
Motor Power	55	[kW]
Brand	EL. ADDA	
Poles number	4	
Size	250M	
Protection	IP55	
Frequency	50	[Hz]
Voltage	400/690V	

Efficiency	esec. IE3	
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Fan material:	
Casing	S235JR
Blades	corten
Impeller Disk	corten
Impeller Cone	corten

Supply description:
Centrifugal fan KB 40 esec. 4
Electric motor IE3 Elettro Adda 250M B3 4 p
Dimensional drawing A
Cooling wheel
Packing 2
CBI supply Motor mounting
Flex.connection t.6 inlet
Flex.connection t.6 outlet
Rubber isolators
Painting A2 - RAL5009

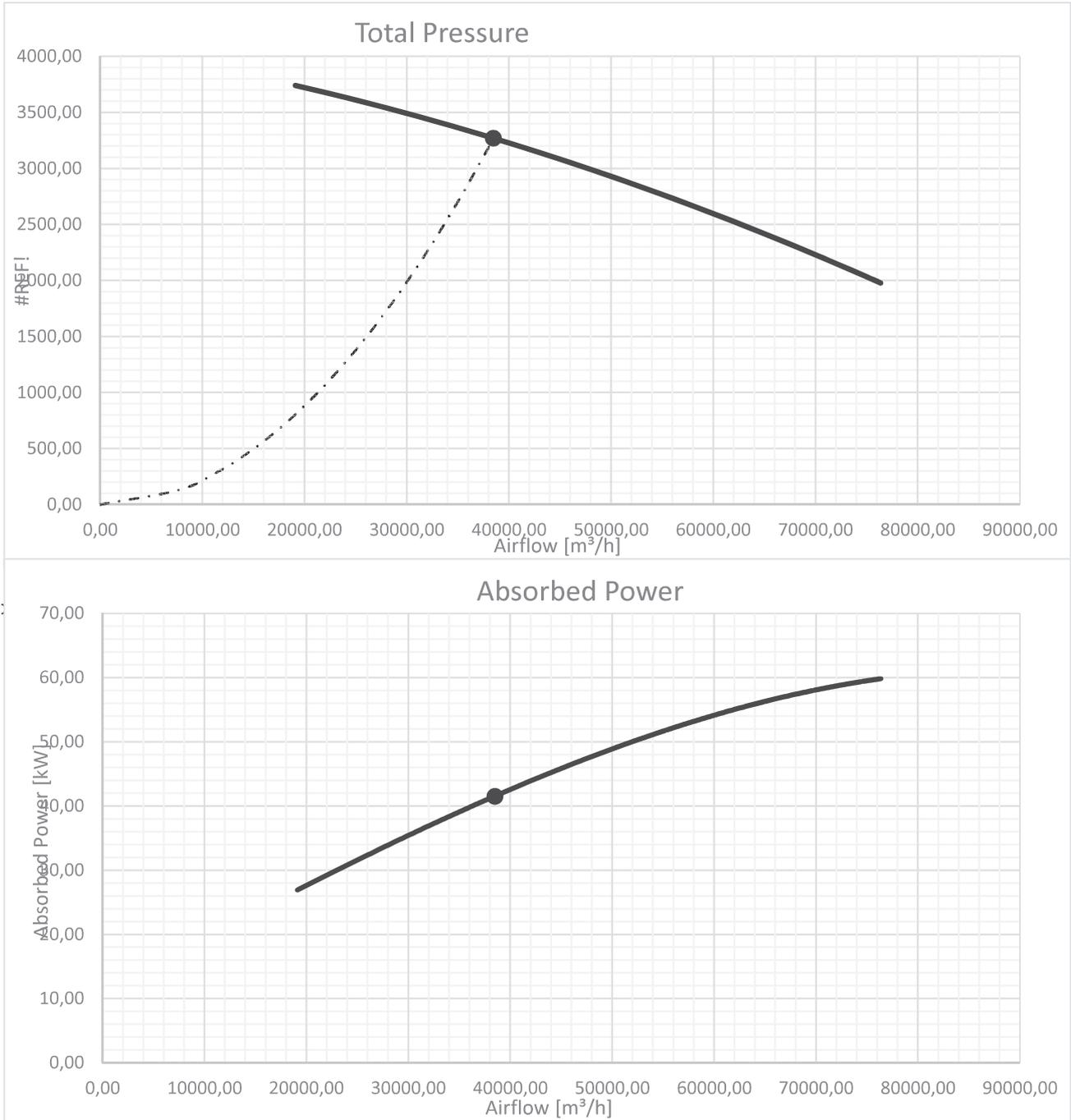
Optionally offered (Recomanded)
Insualtion 1 - 100mm



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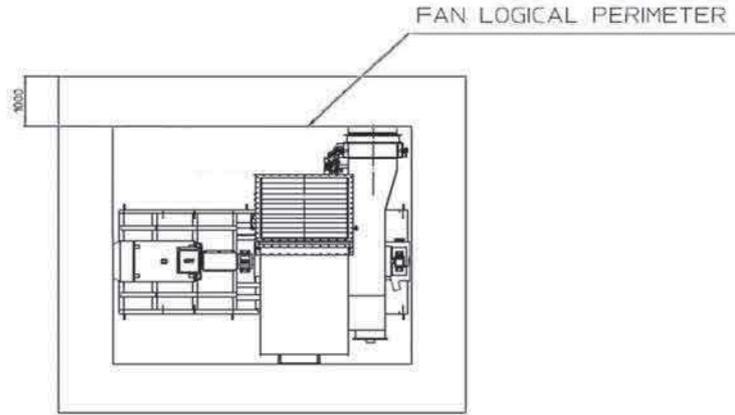
KB 40R2

PROJECT:



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Sound pressure spectrum (SPLi) in dB(A) at  $2 \times 10^{-5}$  Pa in working condition [tolerance +4 dB(A) according to ISO 13348]



*The noise level values are measured in free field at 1 meter from fan logical perimeter and 1,5 m from floor, with the fan placed on the floor and not surrounded by reverberating wall considering a background noise pressure level  $L_p(A) < 10$  dB(A) at indicated perimeter. Measurements according to ISO 13347 standards*

dB(A)-2 Introduced in the duct

dB(A)-3 Emitted by fan ducted both at the inlet and outlet

**Fan power level**

HZ	63	125	250	500	1000	2000	4000	8000	Globale
dB(A)-2	88	95	97	98	97	95	92	87	104
dB(A)-3	73	77	76	83	78	74	75	70	86

**Sound pressure at the housing**

HZ	63	125	250	500	1000	2000	4000	8000	Globale
Sound pressure level dB(A) at 1 m	65	69	68	75	70	66	67	62	79

**Sound pressure at free duct**

HZ	63	125	250	500	1000	2000	4000	8000	Globale
Sound pressure level dB(A) at 1 m	80	87	89	90	89	87	84	79	96