

ROBUSCHI

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Blower

SELECTION

International Measuring System (S.I.)

Soft.Ver. : 13.0.18
D.B.Ver. : 16.5.4001
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MODEL : RBS 115 - V

Quantity :

GENERAL DATA

Ref. : @ 55 HP shaft power Plant : Anfrage IMP 197236
Customer : impexron Item :
Service : Waste water treatment

FLUID

Fluid : Atmospheric air
Spec. W.ght (kg/m³) : 1.199 Spec. Heat Cp (kJ/kg°C) : 1.010 Spec. Heat Cv (kJ/kg°C) : 0.723
Altitude (m) : 0 Pressure (mbar) : 1,013 Temperature (°C) : 20
Relative humidity (%) : 50

TECHNICAL DATA

Delivery (m ³ /h)	Q1 : 1,514 FAD	*Delivery (Nm ³ /h)	Q2 : 1,394	*Delivery (kg/h)	Q3 : 1,802
		***Delivery T (Nm ³ /h)	Q2T : 1.410	***Delivery T (kg/h)	Q3T : 1.815
Delivery (m ³ /h)	Q4 :	*Delivery (Nm ³ /h)	Q4 :	*Delivery (kg/h)	Q4 :
Speed (rpm)	n4 :	***Delivery T (Nm ³ /h)	Q4T :	***Delivery T (kg/h)	Q4T :
Dif.pressure (mbar)	DP : 700	Inlet press. (mbar a)	P1 : 1,013	Outlet pres.(mbar a)	P2 : 1,713
Temp.rise(°C)	DT : 78	Inlet temp.(°C)	T1 : 20	Outlet temp.(°C)	T2 : 98
		Spec.W.ght (kg/m ³)	SW : 1.199	H2O injection (lt/min)	ia : 0.00
Abs.ed Power (kW)	N : 40.8	**Sound Pressure Level (dBA)	: 82	Heat radiation (kW)	Wd : 1.1
Speed (rpm)	n : 1,050	n/nmax (%)	: 44		
Volumetric efficiency (%)	: 74.2	Adiabatic efficiency (%)	: 82.0	Total efficiency (%)	: 59.2

*The Nm³/h and kg/h capacity are referred to the dry part of the conveyed gas/vapour mixture according DIN 1343

**Estimated sound pressure level at 1 m, free field with soundproof piping

***The Nm³/h and kg/h capacity are referred to total conveyed gas/vapour mixture

FAD measured as per ISO1217, performances tolerances as per Robuschi procedure TE1.S.0015 (Q1 =±5%*nm³/n; N=±5%)

ELECTRIC MOTOR

IEC Motor : Hz :
Power (kW) : Poles :
Speed (rpm) : Size :

TRANSMISSION

Coupling type :
V-belt type : Length (mm) : Shaft centres (mm) :
Grooves : Mot.pulley Diam. (mm) : Blower pulley diam. (mm) :
(Int.Code) (Int.Code) (Int.Code)

WARNING

No warning