

# 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. : @ 90 kW motor power Plant : Anfrage IMP 197236  
Customer : impexron Item :  
Service : Waste water treatment

#### FLUID

Fluid : Atmospheric air  
Spec. W.ght (kg/m<sup>3</sup>) : 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 <sup>3</sup> /h)	Q1 : 3,166 FAD	*Delivery (Nm <sup>3</sup> /h)	Q2 : 2,916	*Delivery (kg/h)	Q3 : 3,769
		***Delivery T (Nm <sup>3</sup> /h)	Q2T : 2.950	***Delivery T (kg/h)	Q3T : 3.796
Delivery (m <sup>3</sup> /h)	Q4 :	*Delivery (Nm <sup>3</sup> /h)	Q4 :	*Delivery (kg/h)	Q4 :
Speed (rpm)	n4 :	***Delivery T (Nm <sup>3</sup> /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 : 67	Inlet temp.(°C)	T1 : 20	Outlet temp.(°C)	T2 : 87
		Spec.W.ght (kg/m <sup>3</sup> )	SW : 1.199	H2O injection (lt/min)	ia : 0.00
Abs.ed Power (kW)	N : 78.2	**Sound Pressure Level (dBA)	: 94	Heat radiation (kW)	Wd : 6.8
Speed (rpm)	n : 1,900	n/nmax (%)	: 79		
Volumetric efficiency (%)	: 85.7	Adiabatic efficiency (%)	: 82.0	Total efficiency (%)	: 64.5

\*The Nm<sup>3</sup>/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 Nm<sup>3</sup>/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%\*nm<sup>3</sup>/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