

ROBUSCHI

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ROBOX

SELECTION
International Measuring System (S.I.)

Soft.Ver. : 13.0.18
D.B.Ver. : 16.5.4001
Date : 07.05.2017
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MODEL : ES 75 /3 P

Quantity :

GENERAL DATA

Ref. : Plant :
Customer : 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 : 1,214 FAD	*Delivery (Nm ³ /h)	Q2 : 1,082	*Delivery (kg/h)	Q3 : 1,398
		***Delivery T (Nm ³ /h)	Q2T : 1.094	***Delivery T (kg/h)	Q3T : 1.409
Delivery (m ³ /h)	Q4 : 1.210 FAD	*Delivery (Nm ³ /h)	Q4 : 1.078	*Delivery (kg/h)	Q4 : 1.393
Speed (rpm)	n4 : 2.936	***Delivery T (Nm ³ /h)	Q4T : 1.090	***Delivery T (kg/h)	Q4T : 1.404
Dif.pressure (mbar)	DP : 700	Inlet press. (mbar a)	P1 : 1,013	Outlet pres.(mbar a)	P2 : 1,713
Temp.rise(°C)	DT : 72	Inlet temp.(°C)	T1 : 30	Outlet temp.(°C)	T2 : 102
		Spec.W.ght (kg/m ³)	SW : 1.160	H2O injection (lt/min)	ia : 0.00
Abs.ed Power (kW)	N : 30.9	**Sound Pressure Level (dBA)	: 75	Heat radiation (kW)	Wd : 2.5
Speed (rpm)	n : 2,945	n/nmax (%)	: 78		
Volumetric efficiency (%)	: 84.6	Adiabatic efficiency (%)	: 82.0	Total efficiency (%)	: 62.6

*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 : 200LB Hz : 50
Power (kW) : 37.0 Poles : 2 V : 380-420 D / 660-690 Y
Speed (rpm) : 2,945 Size :

TRANSMISSION

Coupling type :
V-belt type : XPA Length (mm) : 2,282 Shaft centres (mm) : 808
Grooves : 3 Mot.pulley Diam. (mm) : 212 Blower pulley diam. (mm) : 212
(Int.Code C498) (Int.Code 097M) (Int.Code S097)

WARNING

No warning

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OPERATING CURVES
International Measuring System (S.I.)

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FLUID

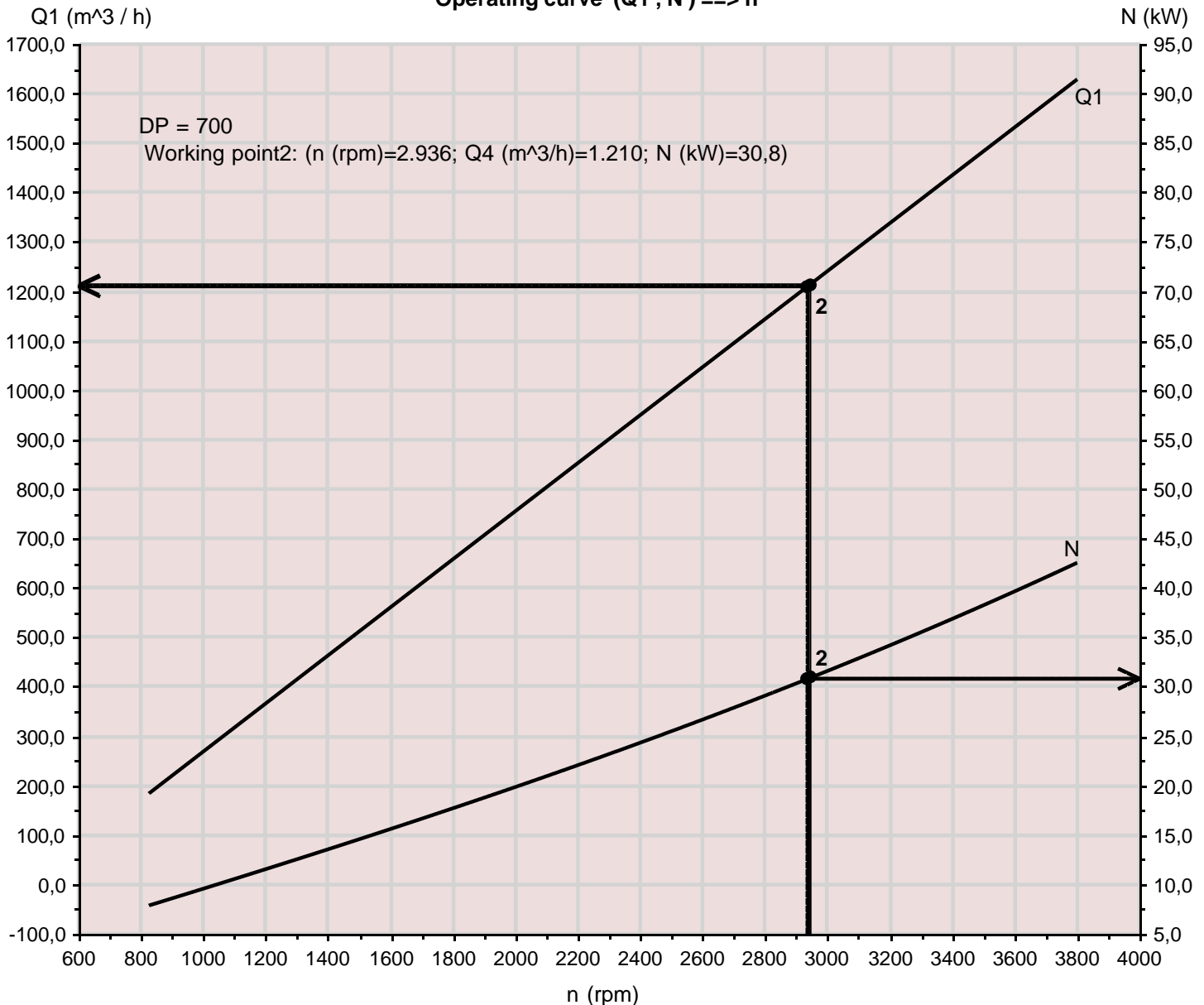
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Altitude (m) :	0	Pressure (mbar) :	1,013	Temperature (°C) :	20
Relative humidity (%) :	50				

OPERATION POINT

Inlet press. (mbar a) P1 :	1,013	Inlet temp.(°C) T1 :	30	Spec.W.ght (kg/m ³) SW :	1.160
Delivery (m ³ /h) Q1 :	1,214	Dif.pressure (mbar) DP :	700	Cp / Cv :	1.4
Abs.ed Power (kW) N :	30.9	Speed (rpm) n :	2,945	n/nmax (%) :	78

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

Operating curve (Q1 , N) ==> n



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Temp.rise(°C) DT :	72	Speed (rpm) n :	2,945	n/nmax (%) :	78

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

Operating curve (Q1 , DT) ==> n

