

Fan Selection Order

SECTION 1: Customer Details

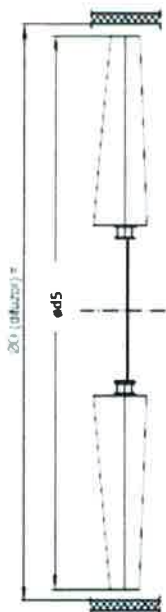
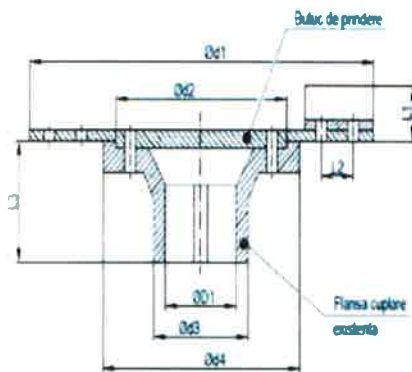
Pos:

02-A1

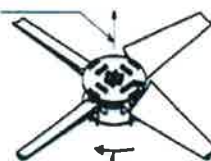
API information required (Mandatory)

End User	Petrotel-Lukoil S.A.	Location:	Onshore-outdoor		
Industry sector	Refinery	Ambient temperature:	min -35°C		max +45°C
Location	Ploiesti, Prahova-Romania	Position:	Horizontal	x	Vertical
Area of Plant *	Delayed Cooker	Direction of rotation:	CCW	x	CW
Fan Duty *	Condenser				
Company:	PETROTEL-LUKOIL S.A.	Phone no:	+40-766257243		
Engineer:	IORGOLU CIPRIAN	Email:	ciorgoiu@petrotel.lukoil.com		

SECTION 2: Dimensional & Type Details

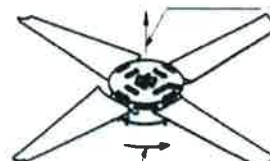


Flow direction



Direction of rotation

Flow direction



Direction of rotation

	Value	Units
d1 (Fan hub OD):	600	mm
d2 (Clamping hub OD):	290	mm
d3 (Flange coupling OD):	140	mm
d4 (Flange coupling shaft side OD):	345	mm
d5 (Fan diameter OD):	3000	mm
D1 (Flange coupling shaft side ID):	85	mm
L1 (Dist First Obstr.):	58	mm
L2 (Dist Between Blade's Clamping Bolts):	90	mm
L3 (Flange coupling height):	104	mm
b (key channel width):	22	mm
t (key channel height):	90,4	mm
Blades No:	6	buc
Blades Type:	FRP	
Is the shaft harder than AISI 316L (160 HB)?:	No	
If yes state value or material spec:	NA	

Direction of rotation of the impeller when viewed against the air flow (mark the necessary with the "V" sign):

V

SECTION 3: Fan Details

Manufacturer:	UMEB	Size / Type:	VPV-3000
Serial No:	NA	Shaft Speed (rpm):	380
Tag Number:	02-A1	Driver Type::	Electrical motor
Typical Drive Arrangements:	Suspended belt drive, motor shaft up	Driver Speed (rpm):	970
Typical Plenum Arrangements:	Forced draught-box-type plenum	Driver Power*:	22 kW
Static Pressure*:	21.460 mWC	Transmission Type:	Belt
Air Flow*:	50,6 cm/sec		
Air Temperature*:	-25-45 Celsius degree		
Altitude*:	180 m		
Blade Pitch Adjustment:	Manual		

* Please state units, e.g. psia, psig, barg, inches, mm

SECTION 4: Customer Suggestions

Size:	-
Type:	-
Hub Material:	-
Blades Ring Material(s):	FRP
Blade Pitch Adjustment:	Manual
Other Specification (e.g API, ATEX):	ATEX; PED
Quantity:	-
Price:	-
Delivery:	DDP Ploiesti

Remarks:	

Head Mechanical Engineer

Senior Mechanical Specialist Engineer

Chief Unit

Mechanical engineer

Fan Selection Order

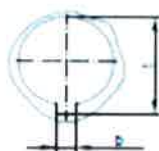
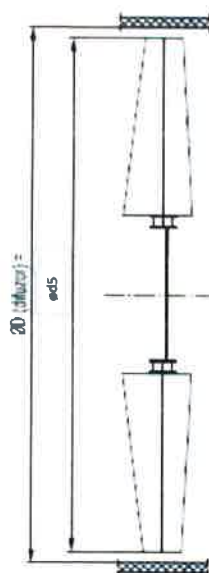
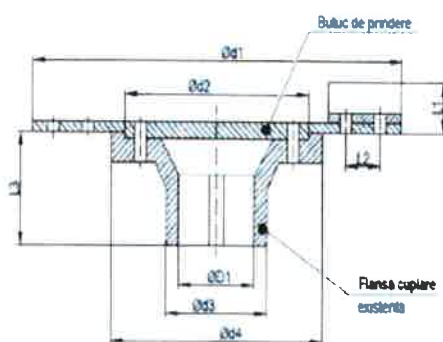
SECTION 1: Customer Details

API information required (Mandatory)

Pos: 76-A2/1,2

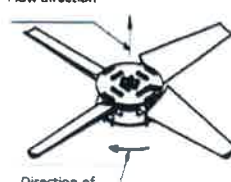
End User	Petrotel-Lukoil S.A.	Location:	Onshore-outdoor			
Industry sector	Refinery	Ambient temperature:	min -35°C	x	x	max +45°C
Location	Ploiesti, Prahova-Romania	Position:	Horizontal	-	x	Vertical
Area of Plant *	Isomerisation	Direction of rotation:	CCW	-	x	CW
Fan Duty *	Axial fan					
Company:	PETROTEL-LUKOIL S.A.	Phone no:	+40-726374454			
Engineer:	IORGOIU CIPRIAN	Email:	ciorgoiu@petrotel.lukoil.com			

SECTION 2: Dimensional & Type Details



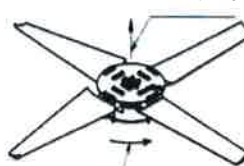
	Value	Units
d1 (Fan hub OD):	600	mm
d2 (Clamping hub OD):	290	mm
d3 (Flange coupling OD):	140	mm
d4 (Flange coupling shaft side OD):	345	mm
d5 (Fan ring ID):	3500	mm
D1 (Flange coupling shaft side ID):	85	mm
L1 (Dist First Obstr.):	60	mm
L2 (Dist Between Blade's Clamping Bolts):	90	mm
L3 (Flange coupling height):	150	mm
b (key channel width):	22	mm
t (key channel height):	90,4	
Blades No:	6	buc
Blades Type:	FRP	
Is the shaft harder than AISI 316L (160 HB)?:	No	
If yes state value or material spec:	NA	
Direction of rotation of the impeller when viewed against the air flow (mark the necessary with the "V" sign):		
		V

Flow direction



Direction of rotation

Flow direction



Direction of rotation

SECTION 3: Fan Details

Manufacturer:	SC COMPANIA DE VENTILATOARE	Size / Type:	VPV 3500
Serial No:	NA	Shaft Speed (rpm):	-
Tag Number:	76-A2/1,2	Driver Type:	Electrical motor
Typical Drive Arrangements:	Suspended belt drive, motor shaft up	Driver Speed (rpm):	1000
Typical Plenum Arrangements:	Forced draught-box-type plenum	Driver Power*:	30 kW
Static Pressure*	12,6 mm water	Transmission Type:	Belt
Air Flow*:	90 cm/sec		
Air Temperature*:	-30°÷42,24° Celsius degree		
Altitude*:	170 m		
Blade Pitch Adjustment:	Manual		

* Please state units, e.g. psia, psig, barg, inches, mm

SECTION 4: Customer Suggestions

Size:	-
Type:	-
Hub Material:	-
Blades Ring Material(s):	FRP
Blade Pitch Adjustment:	Manual
Other Specification (e.g. API, ATEX):	ATEX; PED
Quantity:	-
Price:	-
Delivery:	DDP Ploiesti

Remarks:	

Head Mechanical Engineer

Senior Mechanical Specialist Engineer

Chief Unit

Mechanical engineer

25.03.22

28.03.2022

25.03.2022

Fan Selection Order

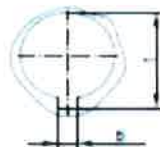
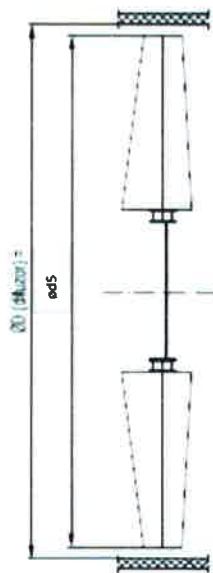
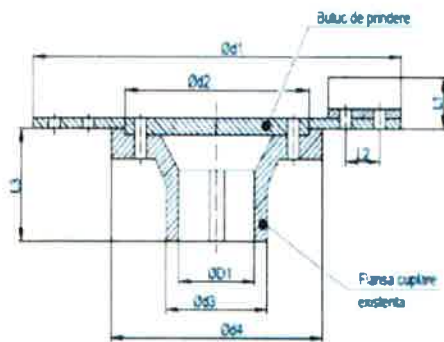
SECTION 1: Customer Details

Pos: 01-A1/A2

API information required (Mandatory)

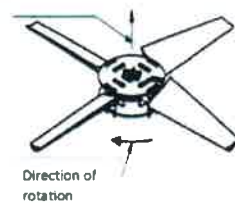
End User	Petrotel-Lukoil S.A.	Location:	Onshore-outdoor			
Industry sector	Refinery	Ambient temperature:	min -35°C			max +45°C
Location	Ploiesti, Prahova-Romania	Position:	Horizontal		x	Vertical
Area of Plant *	Atmospheric Distillation	Direction of rotation:	CCW		x	CW
Fan Duty *	Condenser					
Company:	PETROTEL-LUKOIL S.A.	Phone no:	+40-766257243			
Engineer:	IORGOIU CIPRIAN	Email:	ciorgoiu@petrotel.lukoil.com			

SECTION 2: Dimensional & Type Details

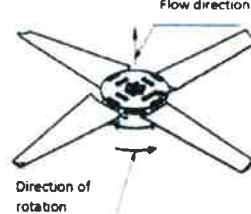


	Value	Units
d1 (Fan hub OD)	600	mm
d2 (Clamping hub OD)	290	mm
d3 (Flange coupling OD)	140	mm
d4 (Flange coupling shaft side OD)	345	mm
d5 (Fan ring ID)	2500	mm
D1 (Flange coupling shaft side ID)	85	mm
L1 (Dist First Obstr.)	58	mm
L2 (Dist Between Blade's Clamping Bolts)	90	mm
L3 (Flange coupling height)	104	mm
b (key channel width)	25	mm
t (key channel height)	85.7	
Blades No	6	buc
Blades Type	FRP	
Is the shaft harder than AISI 316L (160 HB)?:	No	
If yes state value or material spec:	NA	
Direction of rotation of the impeller when viewed against the air flow (mark the necessary with the "V" sign):		
	V	

Flow direction



Flow direction



Direction of rotation

Direction of rotation

SECTION 3: Fan Details

Manufacturer	NA	Size / Type	NA
Serial No	NA	Shaft Speed (rpm)	380
Tag Number	01-A1/A2	Driver Type	Electrical motor
Typical Drive Arrangements	Suspended belt drive, motor shaft up	Driver Speed (rpm)	970
Typical Plenum Arrangements	Forced draught-box-type plenum	Driver Power*	22 kW
Static Pressure*	20.448 mWC	Transmission Type	Belt
Air Flow*	53 cm/sec		
Air Temperature*	-25-45 Celsius degree		
Altitude*	180 m		
Blade Pitch Adjustment	Manual		

* Please state units, e.g. psia, psig, barg, inches, mm

SECTION 4: Customer Suggestions

Size	-
Type	-
Hub Material	-
Blades Ring Material(s)	FRP
Blade Pitch Adjustment	Manual
Other Specification (e.g. API, ATEX)	ATEX; PED
Quantity	-
Price	-
Delivery	DDP Ploesti

Remarks	

Head Mechanical Engineer

[Signature] 03.08.2021

Senior Mechanical Specialist Engineer

[Signature] 03.03.2021

Chief Unit

[Signature] 07.03.2021

Mechanical engineer

[Signature] 02.03.2021