

OUR REF. NO:DQH/2K2401274R3/NMG/SSA

DATE: 23-02-2024

M/s. Crescentia Labs Pvt Ltd
GV One
Plot No.15-B,
MN Park Phase-ISy No. 230 to 243
Turkapally Hyderabad,Telangana,500078
Contact No.:- 04066335551
GSTNO:36AADCB2608M1Z0
Kind Attn:- Mr. Ansari



Dear Sir,

Ref : Your mail ENQ. Required a quotation for Chiller pumps

With reference to the above we are pleased to submit our offer as given below.

kindly revert back in case of any clarification and also for more information on the product & services

Please visit our website www.derazengineers.com

TERMS AND CONDITIONS:

NOTE: THE TERMS OF SALE IS AS PER OUR OFFER, NO OTHER TERMS ARE ACCEPTABLE

- 01) **PRICES** - For Site
02) **TAXES** - Including GST @ 18% (HSN Code : 84137091)
03) **P & F** - Inclusive
04) **DELIVERY** - Within 08 - 10 weeks from the date of receipt of your PO
05) **PAYMENT** - 25% Advance and Balance against Proforma invoice prior to dispatch.
Incise of delayed payment OD Interest@18%p.a will be charged
06) **VALIDITY** - 2 days(Subject to price increase by our principle)
07) **WARRANTY** - 12 months from the date of dispatch/18 Months from the date of commissioning whichever is earlier
(Warranty is subjected to Manufacturing defects only does not cover Operational or other cases.)
08) **INSURANCE** - Not in our scope.

We now request you to kindly place your valuable order on us.

OUR GST Details - GST NO : 36AAAFD5716G1ZP

Bank Details: CANARA BANK, Kundanbagh Branch, ACC No: 1626261007254, Current Account, Deraz Engineers

IFSC Code: CNRB0001626, MICR Code: 500015014

SPECIAL NOTE: Please release your order on our H.O Address: DERAZ ENGINEERS,Plot no:19,Star House,Road no:12, Tech Park,IDA Nacharam,Hyderabad-500076,Telangana.

Thanking you and assuring you of our best services at all times.

Yours Faithfully,

(TECHNICAL DEPT.)

(COMMERCIAL DEPT.)

Note: For further clarification Please contact: Mr. N. Mahender Goud (Sr. Manager Sales) - 9948353612

AUTHORIZED DEALERS FOR



Head Office: Plot No. 19, Star House, Rd No.:12, Tech Park, IDA Nacharam, Hyderabad-500076, email: deraz@deraz.in

Ph. No.: 040-29802645, 29802722, Cell: +91 9948353601-25, email: sales@deraz.in

B.O.: Plot No.P2, Navarang Apartment, Khanna Nagar and Benz Circle, Vijayawada - 520 010, Ph. No: 0866-2488330, Cell: +91 9010901031, email: vja@deraz.in

B.O.: D.No: 27-2-1046/1/102, 6th Street, Sri Sai Balaji Nilayam, Jagadish Nagar, Nellore-524005, Ph. No: 0861-2342442, Cell: +91 9010901040, email: nlr@deraz.in

B.O.: Plot No: 77/40, Coral Merchant Street, Mannadi, Chennai-600001, Ph. No: 044-25225786, Cell: +91 9176997525, email: chennai@deraz.in

Description	GV1 Chiller pumps BOQ.
Client	M/s. Crescentia Labs Pvt Ltd
SQ No. / SQ Date	2K401274R3/23-02-2024
Quantity	3(2W + 1S)
OPERATING DATA	
Fluid Handled	Water
Temperature (°c)	-30 °C to +140 °C
Sp. Gravity	1
Capacity(m³/hr)	218 (960 USGPM)
Total Head(m)	36.5
PUMP TYPE & SIZE	ETN 150-125-315 GI
Pump Design	Horizontal, end suction, centrifugal, radially split volute casing pumps in back-pull-out design fitted with single stage radial impeller.
NPSHR(m)(ABSOLUTE)	2.31
Speed(rpm)	1482
Efficiency(%)	82
Power Absorbed(kW)	26.47
Shut-off head	40.11
IMPELLER TYPE	Closed
Impeller Diameter	327
Pump Suction / Discharge Nozzle Size	150/125
Recommended pipe size suction / Discharge	DN 150 / DN 125
Pump Flange Standard Suction / Discharge	ASME B16.1_CL.#125_RF
M O C	
Volute Casing	CI
Impeller	Bronze
Shaft	Type 410
Seal Type	Mechanical Seal
End Connection & Coupling	Flanged End with Tyre Coupling
Lubrication	Oil Lubrication
Foundation Bolts, Coupling Guard & Baseframe	MS Foundation nuts, bolts & Fabricated Coupling Guard & Baseframe
MOTOR DATA	
Make	SIEMENS/CG/KSB
TYPE	IE3, NFLP, Degree of Protection IP55, Ambient 50°C, Cast Iron housing, Method of Cooling - IC411,TEFC, INSULATION CLASS F, TEMP RISE-CLASSB, 415 VOLTS ± 10%, 50Hz ±5% Foot Mounted
Kw/HP Rating/IEC Frame Size	37 KW / 50 HP / 225S
Price in Rs.	
For ETN Pump with Mechanical Seal, Motor along with Baseframe, Foundation nuts & bolts, Coupling & Coupling Guard (Each Pump Including 18% GST)	₹ 3,00,000
For 3 PumpSets (Including 18% GST)	₹ 9,00,000
Total Amount for Pumpsets in Rs. (Including 18% GST)	₹ 9,00,000
Note : Scope of Supply For ETN Pump with Mechanical Seal, Motor along with Baseframe, Foundation nuts & bolts, Coupling & Coupling Guard	

Performance curve

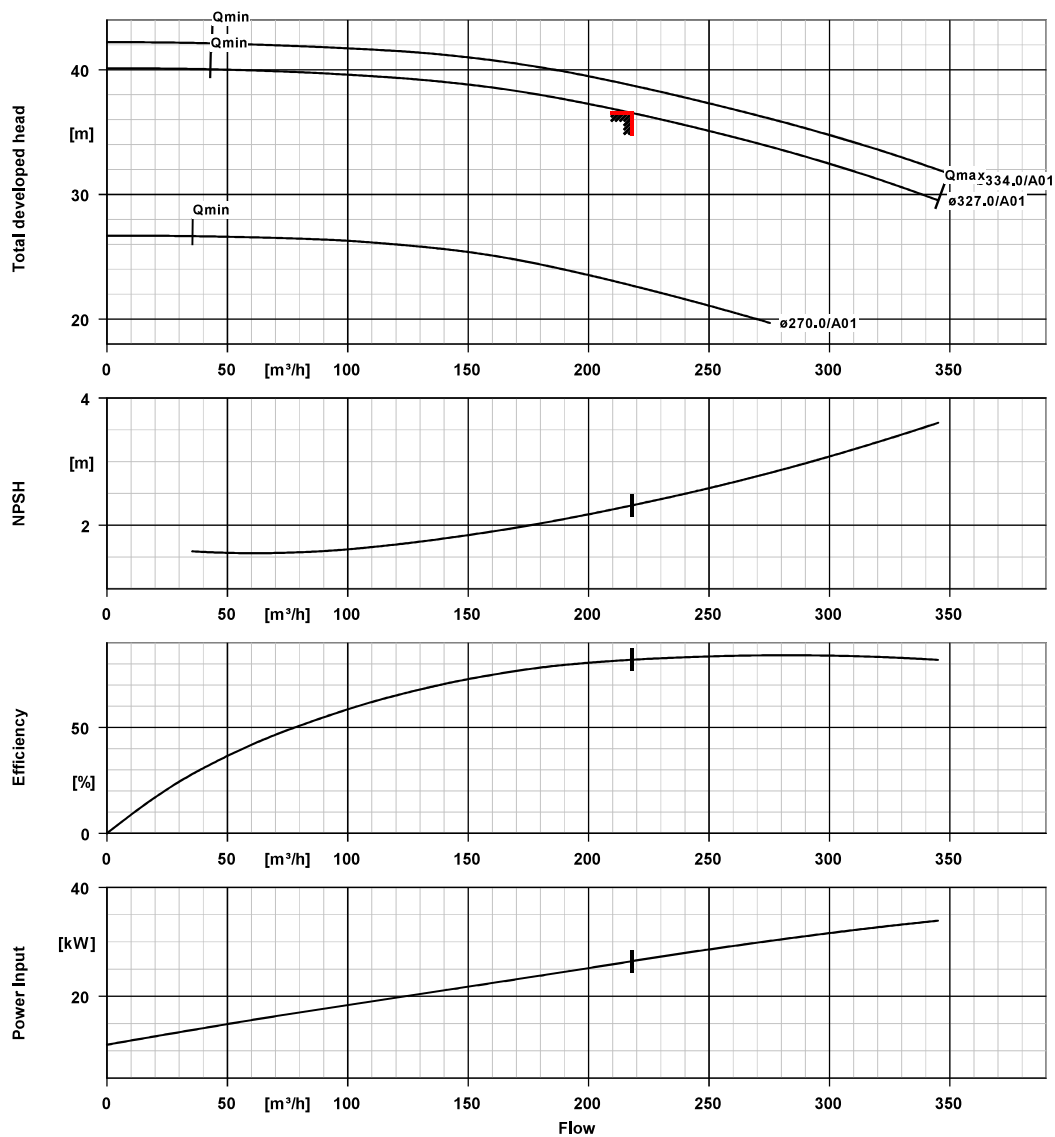


Customer item no.:
Communication dated:
Doc. no.: Quick quote
Quantity: 1

Number: ES 8002778810
Item no.:100
Date: 05/02/2024
Page: 3 / 10

ETN 150-125-315 GISCP1CGA503704B
Low-pressure centrifugal pump Etanorm

Version no.: 1

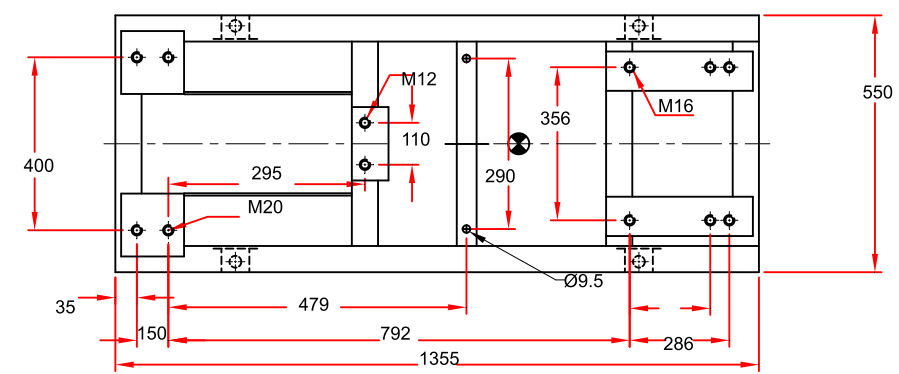
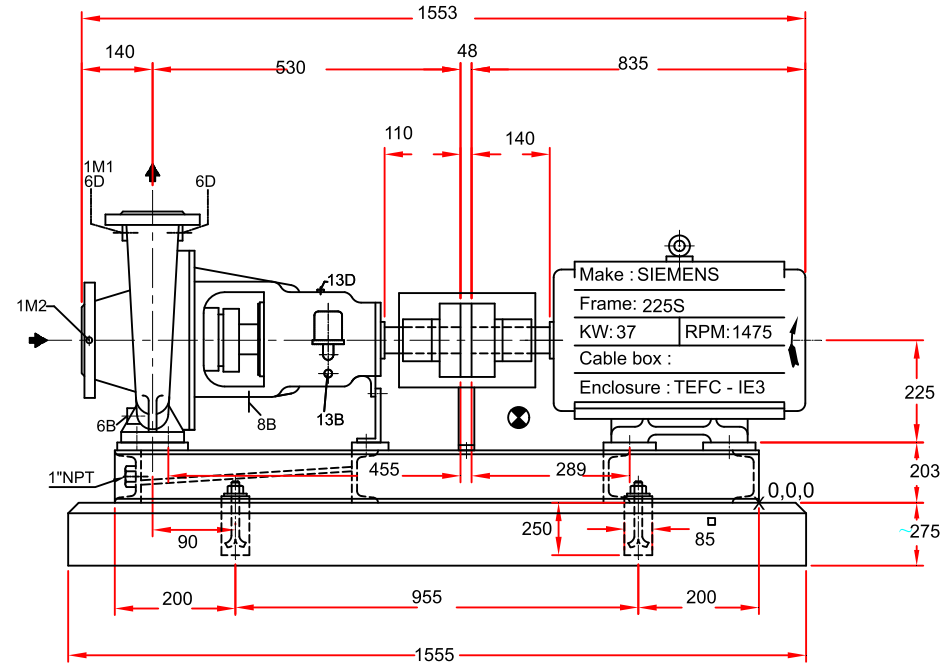


Curve data

Speed of rotation 1482 rpm
Fluid density 1000 kg/m³
Viscosity 1.00 mm²/s
Flow rate 218.11 m³/h
Requested flow rate 218.00 m³/h
Total developed head 36.54 m
Requested developed head 36.50 m

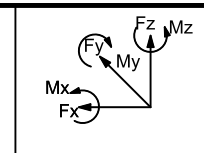
Efficiency 82.0 %
MEI (Minimum Efficiency Index) ≥ 0.50
Power absorbed 26.47 kW
NPSHR 2.31 m
Curve number K1311.454/52
Effective impeller diameter 327.0 mm

Customers should maintain 5 times DN1 as the minimum straight length of pipeline before the pump suction flange.

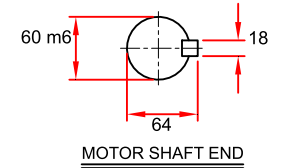
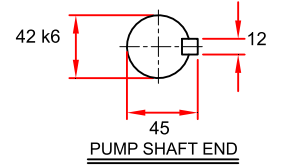
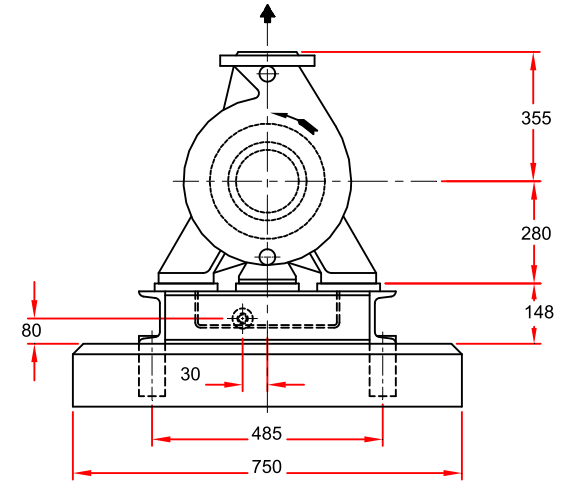


Dynamic load / per found. bolt - Starting : 176.14 Kg.
Dynamic load / per found. bolt - Normal : 25.16 Kg.
Static load / per found. bolt : 152.2 Kg.

8B	Leakage drain	NPT 1/2"	FOUNDATION BOLT	: M20 x 250	LG.
13D	Vent plug	20	COUPLING	Lovejoy-Tyre	: T-8
1M1/6D	Pressure guage /Filling/Venting	G 1/2"	GD ² OF PUMP	: 0.7336	Kgm ²
6B	Casing drain(Plugged)	G 1/2"	GD ² OF COUPLING	: 0.168	Kgm ²
1M2	Pressure guage / Suction	G 1/2"	WEIGHT OF PUMP	: 151.9	KG.
6D	Filling/Venting	G 1/2"	WEIGHT OF BASE FRAME+ COUPLING	: 111.9	KG.
13B	Oil drain	G 1/4"	WEIGHT OF MOTOR	: 345	KG.
			TOTAL WEIGHT	: 608.8	KG.



● As per KSB STD	DN	Forces in daN ●					Moments in daNm ●		
		Fx	Fy	Fz	Fres	≥ Mx	≥ My	≥ Mz	
Discharge / DN2	125	125	112	140	218.6	74	53	67	
Suction / DN1	150	175	160	140	275.4	88	61	72	



"Please confirm Motor shaft-diameter from Motor manufacturer-before finalizing Coupling bore."

Only drilling as per ASME Standard for Pump flanges

	Suc. / DN1 : #125_RF__	150	285	241.3	211	27	8	22.4
	Disch./ DN2 : #125_RF__	125	254	215.9	184	26	8	22.4
	Flanges : ASME B16.1	DN	D	k	g	b	Holes	Dia.
	Rated Flow	: 218	m ³ /hr.					
	Rated Head	: 36.50	m.					
	Quantity	: 3	No's					
Approximate C. G. of pump, Coupling, Motor & Base frame.								

KSB S.O. No	: 1
KSB Indent No.	:
Client	:
Client's P.O.No.	:
Project	:
Customer Item No.	: 1
Consultant	:
Service	:

						GENERAL ARRANGEMENT DRAWING		
						ETANORM G 150-125-315		
						DRG. No.		PAGE. No.
						1/ 1		1 OF 1
REV		DESCRIPTION	DATE	NAME	KSB LTD	WE RESERVE ALL RIGHTS		REV. 0
APPROVED		02-21-24						
DRAWN		02-21-24						
		DATE	NAME					

REV	DESCRIPTION	DATE	NAME
APPROVED	02-21-24		
DRAWN	02-21-24		
	DATE		NAME