OUR REF. NO:DQH/2K2409022/CG/SSA

M/s. Fleming Labs

No 131, Ground Floor, Green Park Avenue

Jeedimetla, Hyderabad, Telangana

Mob: 7670948755.

Email Id: projectsfls@fleminglabs.com Kind Attn: Mr. Asisraja - Project engineer



Dear Sir,

Subject: Quotation for KSB Make pumps

Ref: Your mail enquiry for Cooling Tower application

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 Ex stock our works (Hyderabad) & For no stock our principle work.

02) TAXES – GST @ 18% EXTRA (HSN Code : 84137091)

03) P & F - @3% Extra

04) DELIVERY – Ex Stock subject to sale, No stock Within 08 - 10 Weeks from the date of PO.

05) PAYMENT - 25% Advance & Balance against Proforma invoice prior to dispatch.

Incase 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 commissioning/ 18 Months from the date of dispatch whichever is earlier.

(Warranty is subjected to Manufacturing defects only does not cover Operational or other cases.)

08) INSURANCE – Not in our scope.

09) DISCOUNT - Please consider 10% discount on the Quoted Prices

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,

(COMMERCIAL DEPT.)

Note: For further clarification Please contact: Mr. C Gopinath (Zonal Manger) - 9948353621 AUTHORIZED DEALERS FOR

























Pump No.	1. Primary pump	2. Secondary pump	3. RT Circulation Pump	4. RT Circulation Pump
Client	M/s. Fleming Labs			
SQ No. / SQ Date	OUR REF. NO:DQH/2K2409022/CG/SSA			
Quantity	2	1	2	2
OPERATING DATA	_	-	_	_
Fluid Handled	Brine	Brine	Cooling tower water	Cooling tower water
Temperature (ºc)	{-5°C}	{-10°C}	50°C	50°C
Sp. Gravity	1.01	1.01	1	1
Capacity(m³/hr)	30	30	45	60
Total Head(m)	25	25	25	25
PUMP TYPE & SIZE	ETL 040-040-160 GG	ETL 040-040-160 GG	ETL 040-040-160 GG	ETL 050-050-160 GG
Pump Design	Single stage inline volute casing pumps with back pull out design with radically split volute casing.	Single stage inline volute casing pumps with back pull out design with radically split volute casing.	Single stage inline volute casing pumps with back pull out design with radically split volute casing.	Single stage inline volute casing pumps with back pull out design with radically split volute casing.
NPSHR(m)(ABSOLUTE)	4.45	4.45	9.85	5.38
Speed(rpm)	2942	2942	2998	2922
Efficiency(%)	64.7	64.7	61.8	69.8
Power Absorbed(kW)	3.19	3.19	4.98	5.86
Shut-off head	31.07	31.07	38.11	35.71
IMPELLER TYPE	Closed	Closed	Closed	Closed
Impeller Diameter	150	150	163	159
Pump Suction / Discharge Nozzle Size	40/40	40/40	40/40	50/50
Pump Flange Standard Suction / Discharge	ASME B16.1_CL.#125_RF	ASME B16.1_CL.#125_RF	ASME B16.1_CL.#125_RF	ASME B16.1_CL.#125_RF
мос				
Pump Casing	CI	CI	CI	CI
Impeller	CI	CI	CI	CI
Shaft	45C8	45C8	45C8	45C8
GLAND SEAL	Inbuilt Mechanical Seal	Inbuilt Mechanical Seal	Inbuilt Mechanical Seal	Inbuilt Mechanical Seal
MOTOR DATA				
Make	Inbuilt KSB Motor	Inbuilt KSB Motor	Inbuilt KSB Motor	Inbuilt KSB Motor
ТҮРЕ	IE3 , NFLP, 415V+ 10% , 3PH, 50Hz, Insulation Class F but temp rise limited to class B, IP55	IE3 , NFLP, 415V+ 10% , 3PH, 50Hz, Insulation Class F but temp rise limited to class B, IP55	IE3 , NFLP, 415V+ 10% , 3PH, 50Hz, Insulation Class F but temp rise limited to class B, IP55	IE3 , NFLP, 415V+ 10% , 3PH, 50Hz, Insulation Class F but temp rise limited to class B, IP55
Kw/HP Rating/IEC Frame Size	5.50 KW / 7.5 HP / 132S	5.50 KW / 7.5 HP / 132S	7.5 KW / 10 HP / 132S	7.5 KW / 10 HP / 132S
Price in Rs.				
Pumpset with Inbuilt Mechanical Seal & Motor along with Support Foot	₹ 72,499	₹ 72,499	₹ 76,293	₹ 77,597
Unit Item in Rs.	₹ 72,499	₹ 72,499	₹ 76,293	₹ 77,597
Total Price in Rs.	₹ 1,44,999	₹ 72,499	₹ 1,52,585	₹ 1,55,193
Grand Total	₹ 5,25,277			
AVAILABILITY	Ex Stock	Within 08 - 10 Weeks	Ex Stock	Within 08 - 10 Weeks
, , , , , , , , , , , , , , , , , , ,	Cana of Complex Down	Note:	LA SLOCK	AALTHIII OO - TO AAGERS



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

Quantity: 1

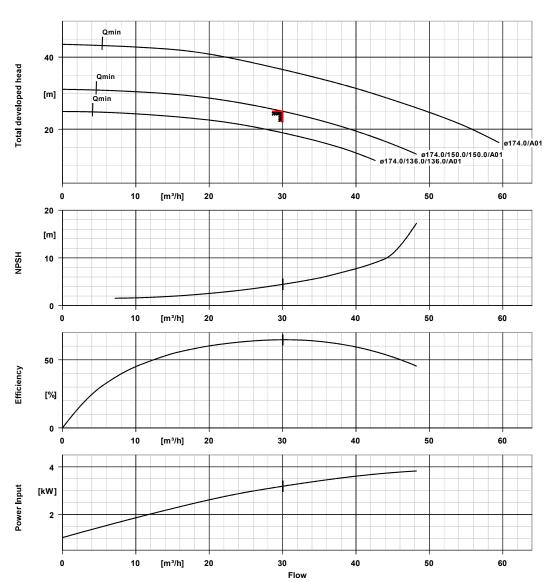
Number: ES 8003152492

Item no.:100 Date: 02/09/2024 Page: 3 / 15

Version no.: 1

ETL 040-040-160 GGSAV10D200552 BIE3

Inline pump



Curve data

Speed of rotation 2942 rpm
Fluid density 1010 kg/m³
Viscosity 1.00 mm²/s
Flow rate 29.99 m³/h
Requested flow rate 30.00 m³/h
Total developed head 24.99 m
Requested developed head 25.00 m

Efficiency
MEI (Minimum Efficiency
Index)
Power absorbed
NPSHR
Curve number
Effective impeller diameter

Acceptance standard

≥ 0.70 3.19 kW 4.45 m K1159.452/22 150.0 mm

64.7 %

Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2



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

Quantity: 1

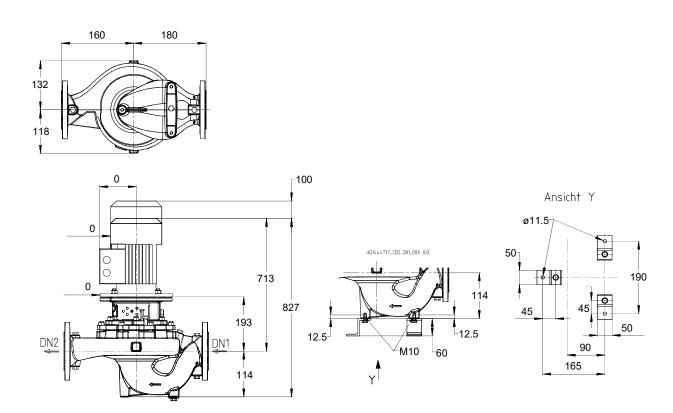
Number: ES 8003152492

Item no.:100 Date: 02/09/2024 Page: 4 / 15

Version no.: 1

ETL 040-040-160 GGSAV10D200552 BIE3

Inline pump



Drawing is not to scale

Motor

Motor manufacturer Indian reference motor 132S Motor size 5.50 kW Motor power Number of poles Speed of rotation 2940 rpm 0° same orientation Position of terminal box

Viewed from the drive

Connections

Suction nominal size DN1 NPS 11/2 / ASME B 16.1 Discharge nominal size DN2 NPS 11/2 / ASME B 16.1 Nominal pressure suct. CL 125 Rated pressure disch. CL 125

Weight net

21 kg Pump Motor 64 kg Other accessories 2 kg Total 86 kg

For auxiliary connections see separate drawing.

Dimensions in mm



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

Quantity: 1

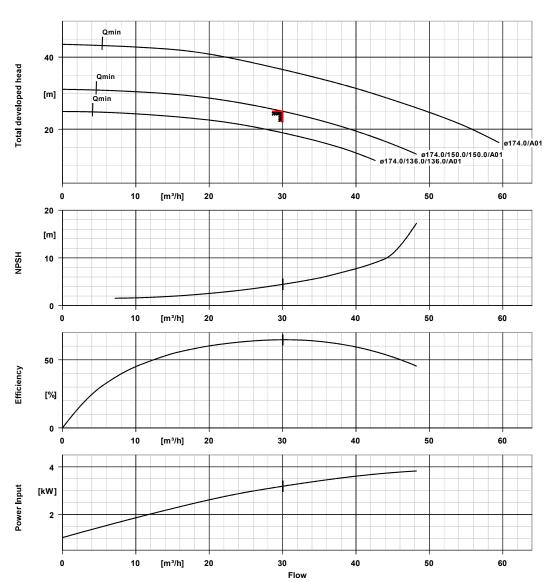
Number: ES 8003152492

Item no.:100 Date: 02/09/2024 Page: 3 / 15

Version no.: 1

ETL 040-040-160 GGSAV10D200552 BIE3

Inline pump



Curve data

Speed of rotation 2942 rpm
Fluid density 1010 kg/m³
Viscosity 1.00 mm²/s
Flow rate 29.99 m³/h
Requested flow rate 30.00 m³/h
Total developed head 24.99 m
Requested developed head 25.00 m

Efficiency
MEI (Minimum Efficiency
Index)
Power absorbed
NPSHR
Curve number
Effective impeller diameter

Acceptance standard

≥ 0.70 3.19 kW 4.45 m K1159.452/22 150.0 mm

64.7 %

Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2



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

Quantity: 1

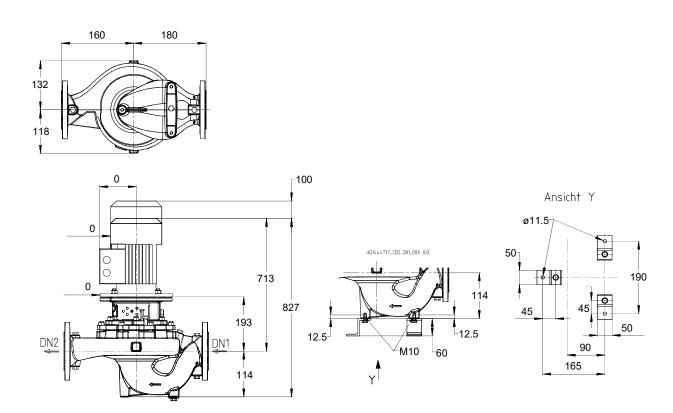
Number: ES 8003152492

Item no.:100 Date: 02/09/2024 Page: 4 / 15

Version no.: 1

ETL 040-040-160 GGSAV10D200552 BIE3

Inline pump



Drawing is not to scale

Motor

Motor manufacturer Indian reference motor 132S Motor size 5.50 kW Motor power Number of poles Speed of rotation 2940 rpm 0° same orientation Position of terminal box

Viewed from the drive

Connections

Suction nominal size DN1 NPS 11/2 / ASME B 16.1 Discharge nominal size DN2 NPS 11/2 / ASME B 16.1 Nominal pressure suct. CL 125 Rated pressure disch. CL 125

Weight net

21 kg Pump Motor 64 kg Other accessories 2 kg Total 86 kg

For auxiliary connections see separate drawing.

Dimensions in mm



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

Quantity: 1

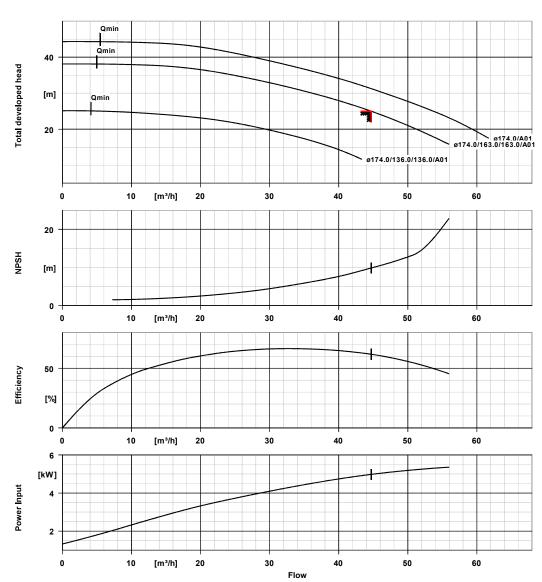
Number: ES 8003152492

Item no.:200 Date: 02/09/2024 Page: 8 / 15

Version no.: 1

ETL 040-040-160 GGSAV10D200552 BKSBIE2

Inline pump



Curve data

Speed of rotation 2998 rpm
Fluid density 1010 kg/m³
Viscosity 1.00 mm²/s
Flow rate 44.71 m³/h
Requested flow rate 44.70 m³/h
Total developed head 25.01 m
Requested developed head 25.00 m

Efficiency
MEI (Minimum Efficiency
Index)
Power absorbed
NPSHR
Curve number
Effective impeller diameter
Acceptance standard

61.8 % ≥ 0.70 4.98 kW 9.85 m K1159.452/22 163.0 mm Tolerances to ISO 9906

Class 3B; below 10 kW acc. to paragraph 4.4.2



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

Quantity: 1

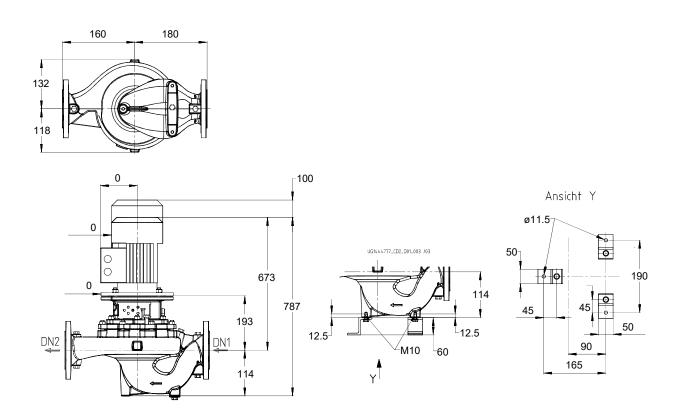
Number: ES 8003152492

Item no.:200 Date: 02/09/2024 Page: 9 / 15

Version no.: 1

ETL 040-040-160 GGSAV10D200552 BKSBIE2

Inline pump



Drawing is not to scale

Motor

Motor manufacturerKSB-MotorMotor size132SMotor power5.50 kWNumber of poles2Speed of rotation2906 rpmPosition of terminal box0° same orientation

Viewed from the drive

Connections

Suction nominal size DN1 NPS 1½ / ASME B 16.1
Discharge nominal size DN2 NPS 1½ / ASME B 16.1
Nominal pressure suct.
Rated pressure disch. CL 125
CL 125

Weight net

Pump 21 kg Motor 45 kg Other accessories 2 kg Total 67 kg

For auxiliary connections see separate drawing.

Dimensions in mm



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

Quantity: 1

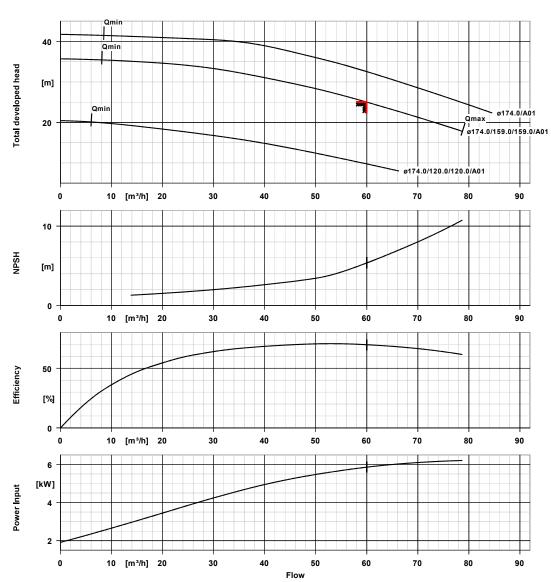
Number: ES 8003152492

Item no.:300 Date: 02/09/2024 Page: 13 / 15

Version no.: 1

ETL 050-050-160 GGSAV10D200752 BKSBIE3

Inline pump



Curve data

Speed of rotation 2922 rpm
Fluid density 1000 kg/m³
Viscosity 1.00 mm²/s
Flow rate 60.01 m³/h
Requested flow rate 60.00 m³/h
Total developed head 25.01 m
Requested developed head 25.00 m

Efficiency
MEI (Minimum Efficiency
Index)
Power absorbed
NPSHR
Curve number
Effective impeller diameter
Acceptance standard

≥ 0.60 5.86 kW 5.38 m K1159.452/26 159.0 mm Tolerances to ISO 9906

69.8 %

Class 3B; below 10 kW acc. to paragraph 4.4.2



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

Quantity: 1

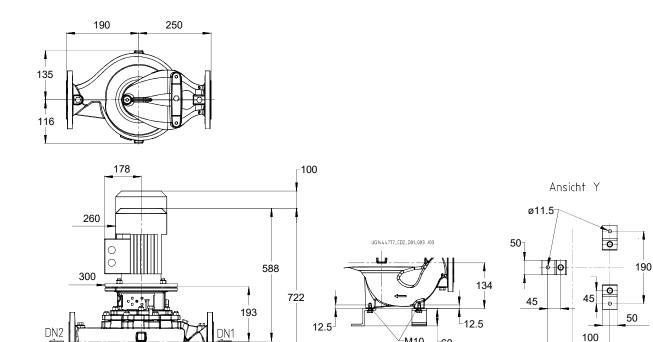
Number: ES 8003152492

Item no.:300 Date: 02/09/2024 Page: 14 / 15

Version no.: 1

ETL 050-050-160 GGSAV10D200752 BKSBIE3

Inline pump



Drawing is not to scale

Motor

Connections

134

Motor manufacturer KSB-Motor 132S Motor size 7.50 kW Motor power Number of poles Speed of rotation 2922 rpm

0° same orientation Position of terminal box Viewed from the drive Suction nominal size DN1 NPS 2 / ASME B 16.1 Discharge nominal size DN2 NPS 2 / ASME B 16.1 Nominal pressure suct. CL 125 Rated pressure disch. CL 125

Weight net

Pump 25 kg Motor 72 kg 2 kg Other accessories Total 99 kg

M10

60

For auxiliary connections see separate drawing.

175

Dimensions in mm