



Nashpa Oil Field & LPG Gas Processing Plant,

OIL & GAS DEVELOPMENT COMPANY LIMITED

DISTRICT KARAK.

Tel. Phone # 0922-526295 (I/C Mechanical)

Fax: 0922-526299

Email: mechanical_nashpa@ogdcl.com

TENDER NOTICE

- 1- Oil & Gas Development Company Limited (OGDCL) is the largest Exploration and Production listed Company of Pakistan having operations at 48 locations and fields in all the four provinces, intends to procure material for its operations. The details about the company can be obtained from website <http://www.ogdcl.com>
- 2- Sealed bids in duplicate along with prescribed Bid Bond from a Scheduled Bank or branch of foreign bank operating in Pakistan of the quoted FOR value are invited for the material given below under Competitive Bidding Procedure on **Single Stage Single Envelope Bidding System**. Terms and conditions are mentioned in the tender documents.

Sr.#	Tender Enquiry No.	Description	Bids Submission Date & Time	Bids Opening Date & Time	Bid Bond Value
1	<u>TE/NOF/M/01/2024</u>	Hiring Of Services for Chemical Cleaning of Air Cooled Heat Exchangers of Engines at Nashpa Plant	3:30 PM 20-FEB-2024	4:00 PM 20-FEB-2024	Rs. 20,000/-

- 3- Tender Documents / Tender Enquiry can be obtained/downloaded from **OGDCL WEBSITE**, www.ogdcl.com or on written request from the Office of the INCHARGE MECHANICAL NASHPA OIL FIELD & LPG GAS PROCESSING PLANT C/O MANAGER TCS DISTRICT KOHAT, Pakistan on any day from 0900 Hours (PST) to 1300 Hours (PST).
- 4- The bids will be opened at the Mechanical Office Nashpa LPG Plant. The couriers are received at TCS Centre Kohat. It takes on average 02 days (after delivery at TCS Centre, Kohat) to reach concerned section after documentation at Field. It is, therefore, advised that the bidder should dispatch the courier considering lead time. Bids will be opened on time and date mentioned

against each Tender Enquiry. Bidder(s) or their Authorized Representative(s) are encouraged to attend the Tender Opening meetings to ensure on time bid submission.

- 5- Bidders must provide their own as well as principal business details at the time of tender purchase including Address, Phone & Fax Numbers, E-mail (if any) for effective communication. If further details/clarifications are required, it may be obtained from INCHARGE MECHANICAL NASHPA OIL FIELD & LPG GAS PROCESSING PLANT C/O MANAGER TCS DISTRICT KOHAT via e-mail, phone and personally.
- 6- The OGDCL reserves the right to accept or reject any bid and to annul the bidding process and reject all the bids at any time prior to award of Purchase Order.

Mailing Address:

I/C Mechanical

Nashpa Oil Field & LPG Gas Processing Plant

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C/O TCS MANAGER DISTRICT KOHAT

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OIL AND GAS DEVELOPMENT COMPANY LIMITED
NASHPA OIL & GAS FIELD

SCHEDULE OF REQUIREMENT
TENDER ENQUIRY # TE/NOF/M/01/2024

Hiring Of Services for Internal Chemical Cleaning/Removal of Water Scale Deposits of 02 Nos. Air-Cooled Exchangers/Condensers at Nashpa Plant

S#	Description	Reference #	Rate	Total rate (inclusive of all Taxes)	Deviation
1	As per attached Scope of Work				


SCOPE OF WORK:

Sr No.	Description	Unit	Qty.	Unit Rate (PKR)	Cost (PKR)
1.	Pressure Test for leakage Detection	Activity	2		
2.	Chemical Circulation and Flushing of Air Cooled Exchanger/Condenser for removal of Water Scale Deposits	Activity	2		
3.	Circulation of Neutralizer Solution to maintain tube metallurgy	Activity	2		
4.	Mobilization/Demobilization Cost	Activity	2		
Total					
15% KPRA Tax					
Grand Total					

TERMS AND CONDITIONS:

1. All bidders should carefully read TOR's attached with the Tender documents before submission of Bid.
2. The complete cost of services should be broken down into the service heads mentioned in the section "Scope of Services". The services should be inclusive of tools, equipment and cost of material to be utilized. No payment against any other service or material head shall be made or considered for evaluation of the bid.
3. Technical Data Sheet/Drawing of Air Cooled Exchanger/Condenser is attached herewith for the purpose of cost estimation required for financial offer.
4. Feel Free to contact on email address: mechanical_nashpa@ogdcl.com for any query in connection with clarification about scope of work.
5. Rate must be quoted against each of the enlisted Activities. Evaluation will be based on complete scope of work.
6. Evaluation of the bids shall take place on the total cost of all services exclusive of GST.
7. Boarding & lodging will be provided by OGDCL.
8. Logistics support (Crane, Lifter and Trailer) will be provided by OGDCL.
9. Power will be provided by OGDCL.
10. Contractor will provide supervision, labour, materials/Chemicals, tools, machines and equipment's to clean Air Cooled Exchanger/Condenser Chemical Descaling without any metal loss.
11. Contractor will Provide Product data sheet and MSDS of chemicals to be used as inhibitor/neutralizer pertinent to tube metallurgy.
12. Contractor will provide required PPE's to its labour.

13. Contractor will comply with HSE policy of OGDCL.
14. Contractor will follow the safety protocols regarding Corona Pandemic.
15. After issuance of formal work order, Contractor is to provide services immediately or at a date mentioned by OGDCL.
16. Payment will be made as per OGDCL's standard procedure.
17. OGDCL reserves the right to inspect, stop and advise rework for any job either during execution or after execution, if deemed necessary by the Company's representative based on quality of the job, finish of the job or if the job is not being or have been performed in line with the best engineering practices. In this regard, the rework will be in Contractor's Scope.
18. Contractor must have 5-10 years' of relevant experience substantiated by documentary evidence (Service orders, work completion certificates etc.). Without documentary evidence bid will be rejected.
19. Partial Payments will not be made, in any case.
20. Management of the plant reserves the right to curtail the job list or terminate the services of any hired staff at any time without any reason.
21. Contractor should ensure the police verification of all manpower direct and indirect and must have bio-data file of each.

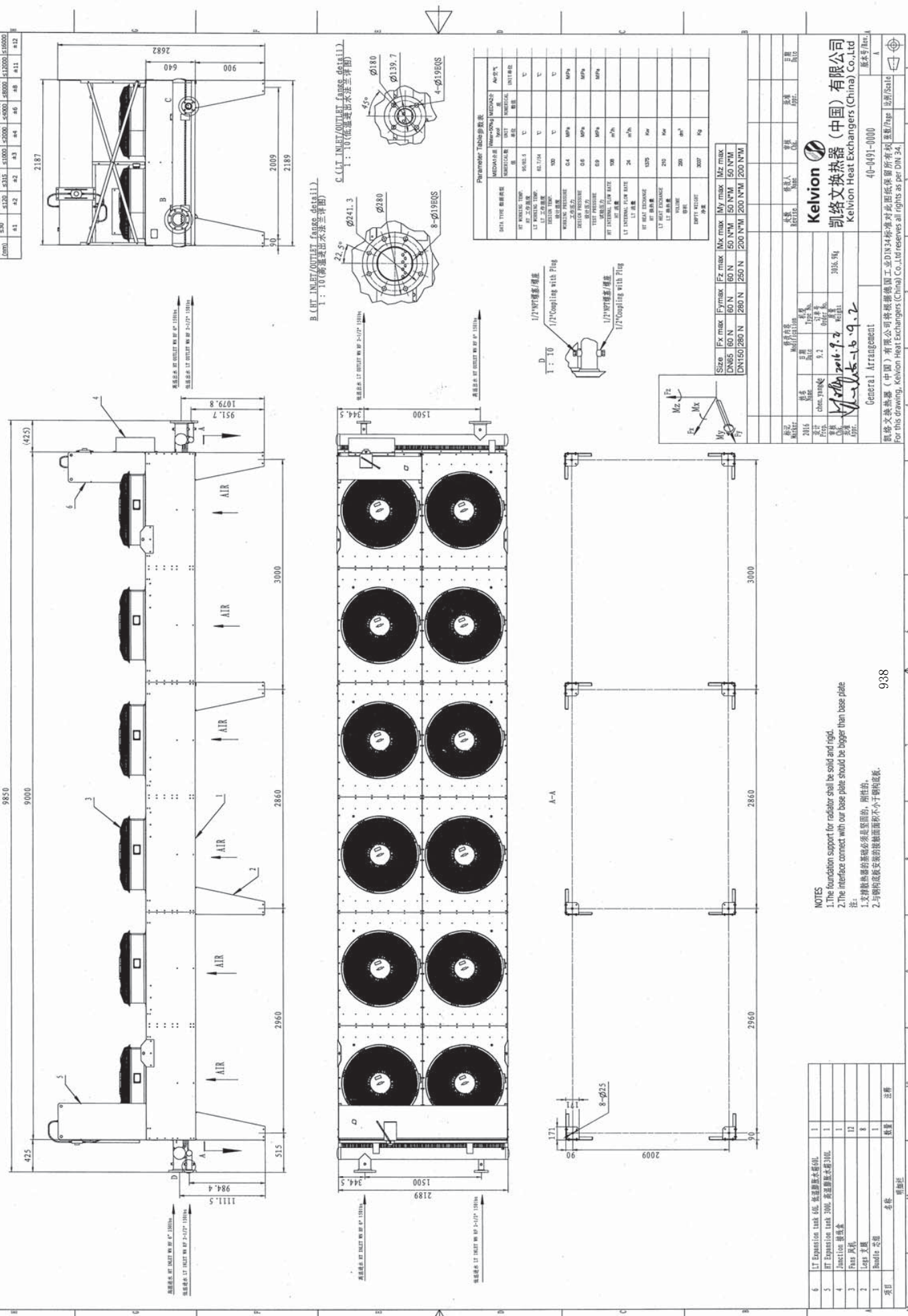
Kelvion 		<input checked="" type="checkbox"/> AIR COOLER EXCHANGER <input type="checkbox"/> AIR-COOLED CONDENSER DATA SHEET								
1	INQUIRY N°					PROJECT NO.			ITEM NO.	
2	SITE	Pakistan				ORDER NO.			ALTERNATIVE	
3	CUSTOMER	Westrac				IDENTIFICATION			DESCRIPTION	
	TYPE	IF-PB206T3H-091H06D								
4	ARRANGEMENT	INDUCED								
		LT CIRCUIT				HT CIRCUIT				
5	HEAT EXCHANGED	210 Kw				HEAT EXCHANGED 1375 Kw				
6	TRANSFER RATE / FINNED	44.1 W/m².K				TRANSFER RATE / FINNED 60.6 W/m².K				
7	FOULING FACTOR	m².KW				FOULING FACTOR m².KW				
PRODUCT SIDE										
9	PRODUCT	Water + Mono Ethylene Glycol 50 %				Water + Mono Ethylene Glycol 50 %				
10	TEMPERATURE	IN	62.7°C		OUT	54.0°C		IN	95.0°C	
11		LIQUID	STEAM	LIQUID	STEAM	LIQUID	VAPOR	STEAM	INERTS	°C
12	FLOW	24.0				108.0				m3/h
13	MOL. WEIGHT									
14	DENSITY									
15	VISCOSITY									
16	SPECIFIC HEAT									
17	LATENT HEAT									
18	CONDUCTIVITY									
20	OPERATING PRESSURE AT INLET	4 Bar				OPERATING PRESSURE AT INLET 4 Bar				
21	CALCULATED PRESSURE DROP	0.14 Bar				CALCULATED PRESSURE DROP 0.5 Bar				
AIR SIDE										
23	INLET TEMPERATURE	46.0 °C				AVERAGE OUTLET TEMPERATURE		70.8 °C		
24	AIR QUANTITY	68 M3/S				AIR QUANTITY/FAN		5.7 M3/S		
25	STATIC PRESSURE DROP 20°C	87 Pa				RELATIVE HUMIDITY AT 46 °C		50 %		
26	MAX./MIN AIR TEMPERATURE	-/- °C				ALTITUDE ABOVE SEA LEVEL		823 M		
CONSTRUCTION										
28	DESIGN OVER-PRESSURE	6 BAR				CODE	Kelvion			
29	TEST PRESSURE	9 BAR				APPROVAL OF DRAWINGS	CUSTOMER+Kelvion			
30	DESIGN TEMPERATURE	100 °C				INSPECTION BY	Kelvion			
31	TUBE BUNDLE	LT	HT	HEADER		TUBE ROUND SEAMLESS				
32	NUMBER OF BUNDLES	1	1	TYPE		PIPE	DIMENSIONS		0 MM	
33	BUNDLES IN PARALLEL	1	1	MATERIAL		COPPER	WALL THK		0.5 MM	
34	BUNDLES IN SERIES			CONN. TUBE-TUBE SHEET		BRASING	FINNED LG		9000 MM	
35	TUBE ROWS/BUNDLE			GASKET MATERIAL		N/A	MATERIAL		COPPER	
36	TUBES / BUNDLE			CORR. ALLOWANCE		0 MM	FIN RECTANGULAR			
37	TUBE PITCH			INLET NUMBER/SIZE LT HT		1 2 1/2 / 1 6"	TYPE		CONTINUOUS	
38	NO. OF PASSES			OUTLET NUMBER/SIZE LT HT		2 2 1/2 / 1 6"	FIN PITCH LT/H		2.1 MM	
39	SPLIT HEADER			FLANGE MATERIAL		C.S	MATERIAL		Aluminium	
40	COUNTER FLOW			FLANGE DESIGN		ISO PN16	BOND TYPE		EXPANSION	
MECHANICAL EQUIPMENT										
42	FAN			MOTOR		DRIVE				
43	DIAMETER	900	mm	ARRANGEMENT						
44	RPM	950	MIN-1	RPM	950	MIN-1	DIRECT			
45	SHAFT POWER / FAN	2.2	KW	POWER / MOTOR		2.2	KW			
46	NUMBER OF BLADES			CYCLES		50	Hz			
47	BLADES MATERIAL			VOLTAGE		400	V		ACCESSORIES	
48	TOTAL NO. OF FANS	12			ENCLOSURE		IP 55			
49	SOUND POWER LEVEL PER FAN	95	dB(A)	INSULATION		CL H/F				
50	SOUND PRESS @ 1M	less than 84.9	dB(A)	TYPE		-				
51			dB(A)							
52	REMARKS							DATE	NAME	
53								8/18/2016	Z.YU.	
54								REVISION		
55										
56										
57										
58										
59								SHEET NO.	1	OF 1

impr01350101B

2.2 Drawing

Unspecified dimension tolerance as below (未注公差如下)

公差 (Tol.)	>30	>120	>150	>1000	>2000	>4000	>8000	>16000
	±0.30	±1.20	±1.50	±1.000	±2.000	±4.000	±8.000	±16.000
	±0.10	±0.40	±0.50	±0.150	±0.300	±0.600	±1.200	±2.400



Parameter Table 参数表

ITEM NO.	DESCRIPTION	UNIT	VALUE	UNIT	VALUE
1	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
2	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
3	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
4	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
5	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
6	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
7	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
8	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
9	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
10	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
11	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
12	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
13	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
14	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
15	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
16	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
17	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
18	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
19	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
20	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
21	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
22	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
23	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
24	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
25	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
26	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
27	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
28	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
29	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
30	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
31	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
32	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
33	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
34	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
35	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
36	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
37	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
38	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
39	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
40	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
41	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
42	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
43	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
44	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
45	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
46	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
47	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
48	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
49	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE
50	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE	MAX. TYPE

Size

Fx max	Fy max	Fz max	Mx max	My max	Mz max
DN65 60 N	60 N	60 N	50 N·M	50 N·M	50 N·M
DN150 280 N	280 N	250 N	200 N·M	200 N·M	200 N·M
DN150 280 N	280 N	250 N	200 N·M	200 N·M	200 N·M

凯络文换热器 (中国) 有限公司
Kelvion Heat Exchangers (China) Co., Ltd

General Arrangement 40-0491-0000

For this drawing, Kelvion Heat Exchangers (China) Co., Ltd reserves all rights as per DIN 24.

- NOTES
- The foundation support for radiator shell be solid and rigid.
 - The interface connect with our base plate should be bigger than base plate.
- 注:
- 支撑散热器的基础必须是坚固的、刚性的。
 - 与钢结构底座安装时的接触面积不小于钢板面积。

项目	名称	数量	注释
6	LT Expansion tank 0.6L 膨胀水箱0.6L	1	
5	FT Expansion tank 300L 膨胀水箱300L	1	
4	Junction 接头	1	
3	Fan 风机	12	
2	Legs 支腿	8	
1	Baseplate 底座	1	