DEGREE KELVIN SOLUTIONS

enhancing energy efficiently

PUNE · SERVING INDUSTRY ACROSS INDIA

PLATE HEAT EXCHANGERS & SPARE PARTS



SEND US YOUR DUTY

Flow rates, the four terminal temperatures and the fluids — you get a sized selection and a budgetary price back, usually within two working days.

New units, replacement plates and gaskets, packaged skids and complete servicing — supplied and supported by one team.

01
NEW PHE

Sized to your duty, quoted fast, delivered ready to install.

02
PLATES & GASKETS

Genuine and equivalent spares for all leading makes.

03
PHE SKIDS

Packaged units, factory tested, plug and play on site.

04
SERVICING

Cleaning, re-gasketing and performance recovery.

EFFICIENT HEAT TRANSFER SOLUTIONS FOR EVERY INDUSTRY

CALL
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heatexchanger.pune@gmail.com

WEB
www.degreekelvinsolutions.com

NEW PLATE HEAT EXCHANGERS

DEGREE KELVIN SOLUTIONS

More duty in less floor space, lower running cost, and a unit you can open, clean and expand instead of replace.



GASKETED PLATE HEAT EXCHANGER

ALSO SUPPLIED

- Gasketed Plate Heat Exchanger
- Brazed plate heat exchangers
- Welded & semi-welded units
- Wide-gap and free-flow units

WHY OUR CUSTOMERS BUY HERE

LOWER ENERGY BILL

Close approach temperatures recover heat that a shell-and-tube throws away — the saving shows up in the first fuel bill.

SMALL FOOTPRINT

A fraction of the space and hold-up volume of an equivalent shell-and-tube, so it fits the plant room you already have.

GROWS WITH YOU

Add plates to the same frame when production increases. No new unit, no new piping.

SERVICED FOR LIFE

We hold plates and gaskets for what we sell, so a shutdown never waits on an import lead time.

BUILT TO YOUR DUTY

PARAMETER	RANGE
Heat duty	5 kW to 25 MW per unit
Flow rate	Up to 2,500 m³/h
Design pressure	Up to 25 bar(g)
Design temperature	−25 °C to 180 °C
Plate materials	SS 304, SS 316 / 316L, Titanium, 254 SMO, Hastelloy
Gaskets	NBR, EPDM, HNBR, FKM (Viton)
Connections	DN25 to DN500 / 1" to 20"

INDUSTRIES WE SERVE













FROM ENQUIRY TO DISPATCH

01
DUTY DATA
Flows, temperatures, fluids, pressure drop.

02
SELECTION
Thermal sizing and material choice.

03
OFFER
Priced datasheet you can compare.

04
GA APPROVAL
Drawing signed off before we build.

05
MANUFACTURE
Hydrotest and DP test records.

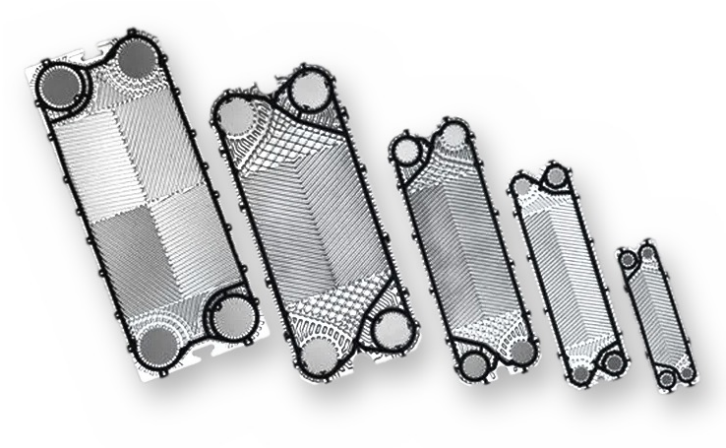
06
DISPATCH
Packed with manual and spares list.

SEND FIVE NUMBERS — Both flow rates, the four terminal temperatures, the fluids and your allowable pressure drop — you get a sized selection and a budgetary price back, usually within two working days.

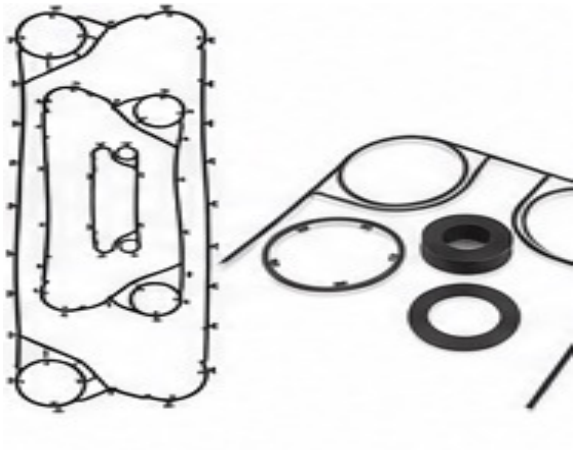
SPARES — PLATES, GASKETS & SKIDS

DEGREE KELVIN SOLUTIONS

Replacement spares for every leading make, and complete packaged skids when you want the whole system from one supplier.



PRESSED PLATES — ALL SIZES, ALL MATERIALS



GASKET SETS — CLIP-ON & BONDED

PHE PLATES

- Pressed to the original chevron angle, so the unit performs to its nameplate rating.
- SS 304, SS 316L, Titanium, 254 SMO, Hastelloy and Nickel.
- Supplied with material test certificates and leak-test records.
- Bare or pre-gasketed and hung, ready to bolt up.

PHE GASKETS

- Clip-on, snap-on, glue-free and bonded profiles, oven cured.
- NBR, EPDM, HNBR and FKM — matched to your medium, not a generic rubber.
- Complete sets including end and connection gaskets, adhesive and solvent.
- Shelf-life controlled stock, batch marked, packed flat.

ALL MAKES COVERED

We identify and supply for all Make PHE - Share a name plate photograph is usually enough.

READY STOCK

Fast-moving plate and gasket sets held in Pune, so a breakdown does not wait on an import.

SENSIBLE PRICING

Equivalent spares at a working budget, with the certification and testing you would expect from the OEM.

SEND A NAMEPLATE PHOTO

We identify the model, plate type and gasket profile and quote the exact set. Nameplate missing? Plate dimensions and port centres are enough to work from.

PHE SKIDS — THE WHOLE SYSTEM, ONE SUPPLIER

ON THE SKID

- PHE sized to duty
- Pumps with standby
- Valves, strainers, instruments
- Control panel, PLC / HMI, VFDs
- Insulation, cladding, painted frame

TYPICAL PACKAGES

- Steam-to-water heating skids
- Chilled water and glycol skids
- Pasteurisation and CIP skids
- Jacket and lube oil cooling skids
- Waste heat recovery skids

WHAT IT SAVES YOU

- One performance guarantee, not five
- Site work down to four flanges and a cable
- Commissioning in days, not weeks
- Tested on our floor before dispatch
- P&ID, FAT report and O&M manual

PLANNING A NEW SYSTEM?

Give us the duty and the utilities available on site — we will come back with a skid layout, a P&ID and a single delivered price for the complete package.

SERVICING & SUPPORT

DEGREE KELVIN SOLUTIONS

A fouled exchanger costs you twice — in pumping power and in lost duty. We restore both, on site or in our workshop.



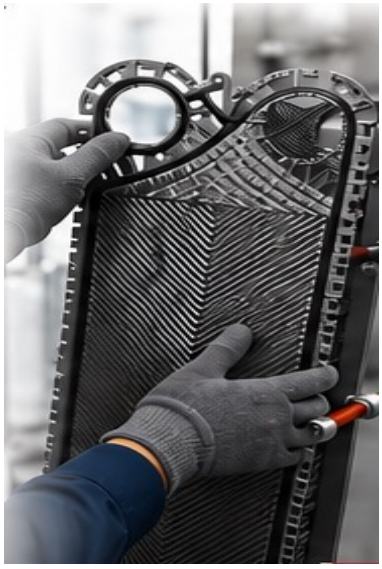


PLATE INSPECTION AND RE-GASKETING

WHAT WE DO FOR YOU

- Full overhaul — strip down, jetting, chemical dip, plate-by-plate inspection, re-gasketing, reassembly and hydrotest.
- Leak investigation — find the cross-contamination and replace only the affected plates.
- Capacity expansion — add or re-arrange plates when your load grows, using the frame you already own.
- Frame refurbishment — blasting, epoxy repaint, new carrying bars, tightening bolts and roller assemblies.
- Annual maintenance contracts — scheduled visits, agreed response times and gasket sets reserved against your units.

PLAN IT, DON'T REACT

Rising pressure drop and a widening approach temperature show up weeks before an exchanger forces an unplanned stop. Track those two numbers and cleaning becomes a scheduled job.

HOW A SERVICE JOB RUNS

01	02	03	04	05	06
AUDIT	**STRIP DOWN**	**CLEAN**	**INSPECT**	**RE-GASKET**	**HAND OVER**
Log flows, temperatures and pressure drop.	Record dimension A, mark and remove plates.	Jetting, then chemical dip to suit the deposit.	Dye-penetrant and leak test every plate.	New gaskets, oven cured, rebuilt to spec.	Hydrotest, recommission, service report.

WHY CUSTOMERS STAY WITH US

TECHNICAL EXCELLENCE

- Experienced engineering team
- Thermal calculation with every offer
- Application and selection support

PRODUCT QUALITY

- Premium materials, certified
- Tested before dispatch
- Long service life in the field

CUSTOMER SUPPORT

- Quick quotation, fast delivery
- Site inspection on request
- After-sales support that answers

TALK TO US

Send your duty, a nameplate photograph or a service enquiry — you will get an answer from an engineer, not a form letter.

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