

Reliable and Energy Efficient Pumps For Pharma Industry

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WILO Mather and Platt Pumps Pvt. Ltd.
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Tech. matter subject to change without prior notice

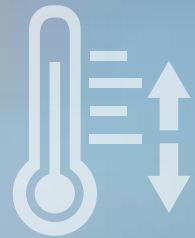


Who we are

Founded in 1872 as Kupfer- und Messingwarenfabrik in Dortmund, Wilo has evolved from being a local specialist to a global player. As the majority shareholder with a stake of approximately 90 percent, the Caspar Ludwig Opländer Founded ensures the company's continuity and independence. An uncompromising customer-driven mind-set, immediate market proximity and, in particular, our culture of innovation have made us who we are: one of the worldwide leading manufactures of high-tech pumps and pump systems.

What we are

Wilo is a premium supplier in the field of building services, water management and industry. This leading position drives us to maintain our superiority. For our customers, we make complex technologies user-friendly, simple to operate energy-efficient and powerful. The main focus of our activities is therefore on the people. We offer them outstanding products, system solutions and services. In this spirit, our brand promise "Pioneering for You" stands for maximum quality of life.



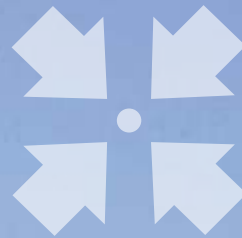
Building Services

In order to maximise the efficiency of buildings, it is becoming increasingly important to use innovative and energy-saving systems incorporating components that are optimally matched to one another. This applies to detached and semi-detached houses, public buildings, industrial buildings, office buildings, hospitals and hotels: Wilo offers energy-efficient solutions for heating technology, air-conditioning, water supply and wastewater disposal.



Water Management

All life is completely dependent on water – however, this valuable element is becoming increasingly scarce. The ability to ensure the purification and supply of water is rapidly developing into a global challenge. Wilo offers professional solutions designed to meet the complex requirements involved in the production of potable water, water purification, water pumping, water treatment and waste-water disposal. Wilo water management pumps and systems set benchmarks in the areas of technical performance, efficiency and sustainability.



Industry

Wilo manufactures pumps that guarantee the highest level of reliability, flexibility and efficiency. Our strengths lie in particular in applications for peripheral equipment for industrial processes. Our acknowledged expertise is the result of a sophisticated product portfolio, solutions that are precisely tailored to customer needs, pooled knowledge and an effective quality management system.



Chinchwad, Pune Plant

WILO Mather and Platt Pumps Pvt. Ltd.

Mather and Platt started its Indian operations in 1913 from Kolkata, and has been fulfilling the need of water supply for more than 100 years in India for segments like building services, water management and industries.

We started our operation at Chinchwad works in Pune, Maharashtra in year 1959.

Mather and Platt Pump Ltd became part of WILO SE in the year 2005

And in year 2014, WILO Mather and Platt Pumps Ltd. Become WILO Mather and Platt Pumps Pvt. Ltd.

In the year 2009 a new state of art manufacturing facility covering over approx. 6000 sq. meters has been built at Kolhapur around 260 km from Pune to manufacture the latest high efficiency products of Wilo India.

The Pune & Kolhapur plants have acquired ISO 9001, ISO 14001 and OSHAS 18001 and all products are CE certified.



Kolhapur Plant

Water is life.



Quality. This is what matters.

Deviations of 70 micrometres – a hair’s breadth – are just visible to the naked eye. This is still too much tolerance for real quality and this is why our quality assurance system combines the latest measuring methods with extensive testing procedures. These include, for example, an endurance test in which our pumps run non-stop under full load. This test and the most demanding eagle-eyed technicians mean that even the smallest of flaws do not go undetected. Only products that pass our tests with flying colours are put to use in your company. Quality means that we question every aspect of our products and actions, so that you are left in peace.



Service. Wherever you need us.

Flexibility is one of the most important qualities in the business world of today. Not only for the product range or service, but also spatially. Our specialists for development, quality assurance and production work in close cooperation with you when integrating our pumps in your production process. That begins with individual consulting during the planning stage, and goes far beyond installation and connection. A well-trained and worldwide active service department is another essential feature of our partnership philosophy. We’re only happy when your business runs as well as our pumps.

Wilo service worldwide:

- f* more than 1500 Wilo technicians
- f* available in more than 60 countries
- f* customer driven solutions
- f* excellent supply performance
- f* fast and in best quality

Wilo service in India:

- f* more than 200 Wilo technicians
- f* more than 100 Wilo service partners
- f* available across the country
- f* customer driven solutions
- f* excellent supply performance
- f* quick and reliable
- f* Each our Regional office is having Team of Service persons
- f* At Pune, we have centralized service Team
- f* We have appointed Service Dealers who are having Trained Service Team from M+P
- f* We are doing Energy audit of Industrial Plant
- f* We Carry Out Retro fitting Jobs also

Cooling Tower



Horizontal Split Case Pump

Volume flow	upto 18000 m ³ /hr
Delivery head	upto 270 m
Temperature	upto 120°C

Features

- f* Mechanical seal/gland packing
- f* Centerline line Mounting for high temp service
- f* Vertical execution direct drive/shaft extension unit
- f* Prime Mover- Motor/Engine



Vertical Turbine Pump

Volume flow	upto 50000 m ³ /hr
Delivery head	upto 450 m
Temperature	upto 80°C

Features

- f* Above floor/below floor
- f* Suspension length upto 25 meters
- f* Hollow shaft design
- f* Single/multistage
- f* Caission/ cannistor construction
- f* Tilted pad thrust bearings with bearings cooling arrangement, semi-open impellers
- f* Pumped medium/oil/external water lubricated line shaft bearings
- f* Prime Mover- Motor/Engine

Fire Fighting



Horizontal Split Case Pump

Volume flow	upto 18000 m ³ /hr
Delivery head	upto 270 m
Temperature	upto 120°C

Features

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- f Centerline line Mounting for high temp service
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- f Prime Mover- Motor/Engine



End Suction Pump

Volume flow	upto 750 m ³ /hr
Delivery head	upto 170 m
Temperature	upto 120°C

Features

- f End Suction top discharge
- f Back pullout design
- f Conforms to ISO 2858
- f Mechanical seal/gland packing
- f Grease/Oil Lubricated Bearing
- f Prime Mover- Motor/Engine



Vertical Inline Pump

Volume flow	upto 155 m ³ /hr
Delivery head	upto 235 m
Temperature	upto 100°C

Features

- f Vertical inline mounting
- f Available in 2 to 24 stages
- f Antifriction bearing
- f Mechanical seal with EPDM/Viton elastomers
- f Supplied with high efficiency VFD compatible motor
- f Option of Flame proof motor



Fire Control Panel

Specifications

- f Input supply 230VAC
- f Control supply 12/24 VDC
- f Starting manual/remote/auto
- f Visual audio indicator

Features

- f SMPS battery charger, Auto/manual start
- f AMF facility low lube oil pressure alarm
- f Engine over speed, fail to start, high engine water temp alarm
- f Option of PLC based system & Thyrister based charger
- f Also available with UL approved

HVAC



Vertical Inline Pump

Volume flow	upto 155 m ³ /hr
Delivery head	upto 235 m
Temperature	upto 100°C

Features

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- f* Available in 2 to 24 stages
- f* Antifriction bearing
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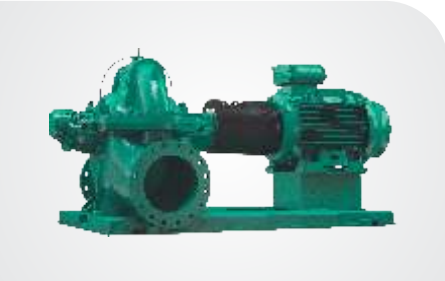
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- f* Prime Mover- Motor/Engine



WTP / DM / RO Plant



WTP/DM/ RO plant



Horizontal Split Case Pump

Volume flow	upto 18000 m³/hr
Delivery head	upto 270 m
Temperature	upto 120°C

- Features
- f Mechanical seal/gland packing
 - f Centerline line Mounting for high temp service
 - f Vertical execution direct drive/shaft extension unit
 - f Prime Mover- Motor/Engine



End Suction Pump

Volume flow	upto 750 m³/hr
Delivery head	upto 170 m
Temperature	upto 120°C

- Features
- f End Suction top discharge
 - f Back pullout design
 - f Conforms to ISO 2858
 - f Mechanical seal/gland packing
 - f Grease/Oil Lubricated Bearing
 - f Prime Mover- Motor/Engine



Vertical Inline pump

Volume flow	upto 155 m³/hr
Delivery head	upto 235 m
Temperature	upto 100°C
Stages	2 to 24

- Features
- f Vertical inline mounting
 - f Antifriction bearing, mechanical seal with EPDM/Viton elastomers
 - f Supplied with high efficiency VFD compatible motor
 - f Option of Flame proof motor



Multistage Ring Section Pump

Volume flow	upto 1000 m³/hr
Delivery head	upto 1800 m
Temperature	upto 160°C
Stages	3 to 15

- Features
- f Radial flow impeller with vane diffusers mechanical seal/ gland packing
 - f Grease lubricated antifriction bearings
 - f Balance valve design for axial thrust bush bearing/ roller bearing
 - f Vertical /centreline optional mounting arrangement

Boiler Feed



Multistage Ring Section Pump

Volume flow	upto 1000 m³/hr
Delivery head	upto 1800 m
Temperature	upto 160°C

- Features
- f Stages-3 to 15
 - f Radial flow impeller with vane diffusers mechanical seal/ gland packing.
 - f Grease lubricated antifriction bearings
 - f Balance valve design for axial thrust bush bearing/ roller bearing
 - f Vertical /centreline optional mounting arrangement



Vertical Inline Pump

Volume flow	upto 155 m³/hr
Delivery head	upto 235 m
Temperature	upto 100°C

- Features
- f Vertical inline mounting
 - f Available in 2 to 24 stages
 - f Antifriction bearing
 - f Mechanical seal with EPDM/Viton elastomers
 - f Supplied with high efficiency VFD compatible motor
 - f Option of Flame proof motor

Process and Utilites



Horizontal Split Case Pump

Volume flow	upto 18000 m ³ /hr
Delivery head	upto 270 m
Temperature	upto 120°C

Features

- f* Mechanical seal/gland packing
- f* Centerline line Mounting for high temp service
- f* Vertical execution direct drive/shaft extension unit
- f* Prime Mover- Motor/Engine



End Suction Pump

Volume flow	upto 750 m ³ /hr
Delivery head	upto 170 m
Temperature	upto 120°C

Features

- f* End Suction top discharge, back pullout design, as per ISO 2858
- f* Mechanical seal/gland packing
- f* Grease/Oil Lubricated Bearing
- f* Prime Mover- Motor/Engine



Vertical Inline Pump

Volume flow	upto 155 m ³ /hr
Delivery head	upto 235 m
Temperature	upto 100°C

Features

- f* Vertical inline mounting, available in 2 to 24 stages
- f* Antifriction bearing
- f* Mechanical seal with EPDM/Viton elastomers
- f* Supplied with high efficiency VFD compatible motor
- f* Option of Flame proof motor



Closed Coupled Vertical Inline Pump

Volume flow	upto 900 m ³ /hr
Delivery head	upto 110 m
Temperature	upto 140°C

Features

- f* Closed coupled design, Vertical inline mountingLow pressure inline pumps
- f* Single stage
- f* Mechanical seal
- f* 3 Phase standard IEC IP 55 motors



Circulators

Volume flow	upto 100 m ³ /hr
Delivery head	upto 18 m
Temperature	upto 110°C

Features

- f* Threaded or flange connection, EC motor and automatic power adjustment
- f* Available in single/three phase
- f* Combination flanges PN6/PN10 thermal insulation shells as standard for heating applications
- f* Red-button technology for easy operation



End Suction Monobloc Closed Coupled Pump

Volume flow	upto 110 m ³ /hr
Delivery head	upto 80 m
Power	upto 30 hp

Features

- f* Dynamically balanced rotating part to ensure minimum vibration, noise free operation & long bearing life
- f* Designed for wide voltage fluctuations



Horizontal Monobloc Pump

Volume flow	upto 25 m ³ /hr
Delivery head	upto 70 m
Temperature	upto 110°C

Features

- f* Stages-2 to 7, Mechanical seal with EPDM/Viton elastomers



Sewage/ Effluent treatment



Non Clog Sewage/Wastewater pump

Volume flow	upto 8000 m ³ /hr
Delivery head	upto 70 m
Temperature	upto 80°C

Features

- f* End Suction top discharge
- f* Casing with hand hole
- f* Free passage size upto 200 mm
- f* Grease lubricated antifriction bearing



Submersible Sewage Pump

Volume flow	upto 8000 m ³ /hr
Delivery head	upto 100 m
Temperature	upto 60°C

Features

- f* Non Clog free flow, single/multi channel impeller
- f* Free passage size upto 200 mm
- f* Oil barrier chamber with float switch winding, bearing temperature indicator, moisture sensor
- f* Stationary/portable installation, with/without macerator



Mixers

Volume flow	upto 4.25 m ³ /hr
Temperature	upto 40°C

Features

- f* Submerged operation mode: S1 protection class: IP 68
- f* Two stage planetary gear with exchangeable second planetary gear
- f* Permanently lubricated antifriction bearing
- f* Max submersion depth 12.5 m

Efficient aeration with the Wilo-Sevio AIR. Thanks to flow-optimised design.

The Wilo disc aerator design is based on considerations regarding flow and strength.

Wilo disc aerators are all factory-tested to ensure that they are within the specified pressure loss range.

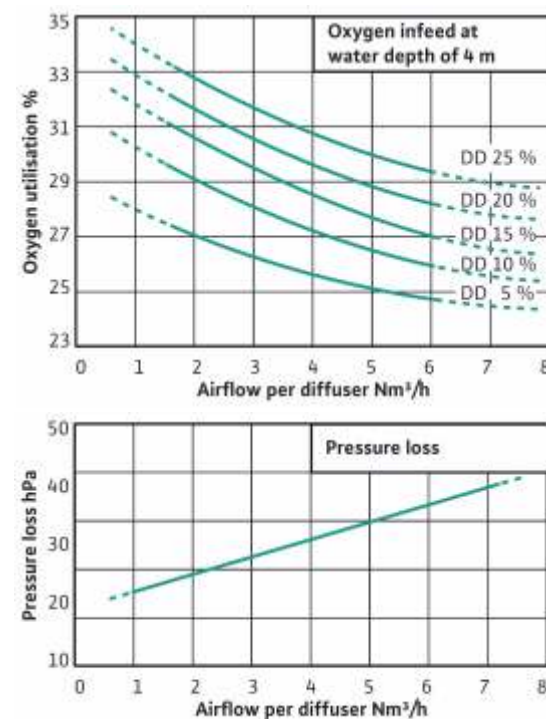
The aeration systems are individually configured for every requirement and are characterized by their compact modular design. Depending on the aeration power required, an appropriate number of disc aerators are installed on pipes and supplied with compressed air. The system is delivered in the form of components that are pre-assembled at the factory – no need for gluing or welding. This allows for quick and easy installation on site.

The combination of submersible mixers and aeration ensures an increased exchange of oxygen. Common configuration to suit the requirements at hand increases the system's overall efficiency. At Wilo, all components are provided from one source.



Process-optimised

Aerator housing with integrated membrane mount, non-return valve and twist guard



The advantages to you

- Reduced energy costs
- Optimal process
- Increased oxygen entry
- Improved treatment performance
- Minimal installation and maintenance required
- Increased overall efficiency
- Combination with Wilo submersible mixers
- Complete configuration to suit the requirements at hand
- A contract person for all project phases



Flow-optimised

Evenly distributed small-bubble oxygen entry over the entire membrane surface



System-optimised

Increased oxygen exchange through the combination of aerator systems and submersible mixers

Efficiently increasing treatment performance with innovative technology from Wilo.



Operators of waste water treatment plants are increasingly confronted with new challenges. Cities are expanding, resulting in waste water treatment plants often being incorporated into suburban areas and being burdened by an increased number of inhabitants. Mainly due to opposition from these inhabitants, expansion of the waste water treatment plant is out of the question, meaning that treatment performance cannot be improved by additional constructions.

Increasingly higher demands are also made on the treatment of industrial waste water. Whether it's changes to production processes or new legal requirements, highly flexible and safe process engineering is what's called for.

Technical data

Wilo-Sevio ACT SD 101 ...

Diameter	900 mm
Flow rate	3,300–4,000 m ³ /h
Rated motor power	3–4.5 kW
Propeller speed	200–250 rpm
Power input	6–10 W/m ³

Special features

- Careful introduction of the biomass carrier particles into the fluid
- Higher volume penetration for optimising the cleaning process
- Reduced energy costs thanks to an improved cleaning performance
- Also with IE3 motor technology (on the basis of IEC 60034-30)
- Retrofit option for existing installations

The advantages to you

- Reduced energy costs
- Low investment costs
- Improved treatment performance
- High process reliability
- Even mixing and reduced deposition
- Easy installation
- Can be installed in existing plant



Floating cover of biomass carrier particles
The carrier particles located on the top layer and mostly not in the waste water are not available for biological degradation. Using the Wilo-Sevio ACT the carrier particles are sucked in and fed back into the biological process underneath the water's surface.



Sucking in the biomass carrier particles
The Wilo-Sevio ACT ensures that the carrier particles are continuously distributed and entered gently in order to protect the growth on them. Due to the outlet being located near the ground, deposition is minimised and even mixing achieved.



Even distribution
The higher the number of carrier particles that react with the fluid, the better the treatment performance. Our individual configuration and the innovative technology of our Wilo-Sevio ACT ensure optimal treatment results.



Sewage disposal equipment from Wilo. Safe transport of heavily contaminated water.

Wilo submersible sewage pump. Highest reliability.

The numerous combinations of fluids and solids in our sewage pose widely differing demands on a pump solution.

The Wilo FA series offers an extensive portfolio for a wide range of applications here. Self-cooling, dry well-installed and/or explosion-proof motors are standard today. But with regard to flexibility,

Wilo is setting future-oriented standards with the new motor technology of the FKT 27.1. It is suitable for vertical and horizontal installation and is designed for permanent operation for wet well and dry well installation.

Further advantages:
The cooling is independent of the type of fluid and, in the case of dry well installation, no room ventilation is necessary – thus, the pit volume can be reduced and building costs saved. Through the perfect combination of modern submersible motor technology, high-quality treated hydraulic components and the solvent-free ceramic coating **ceram**,

Wilo sewage pumps guarantee long-term safe operation – all the time – even for the most demanding fluids and most difficult constraints.

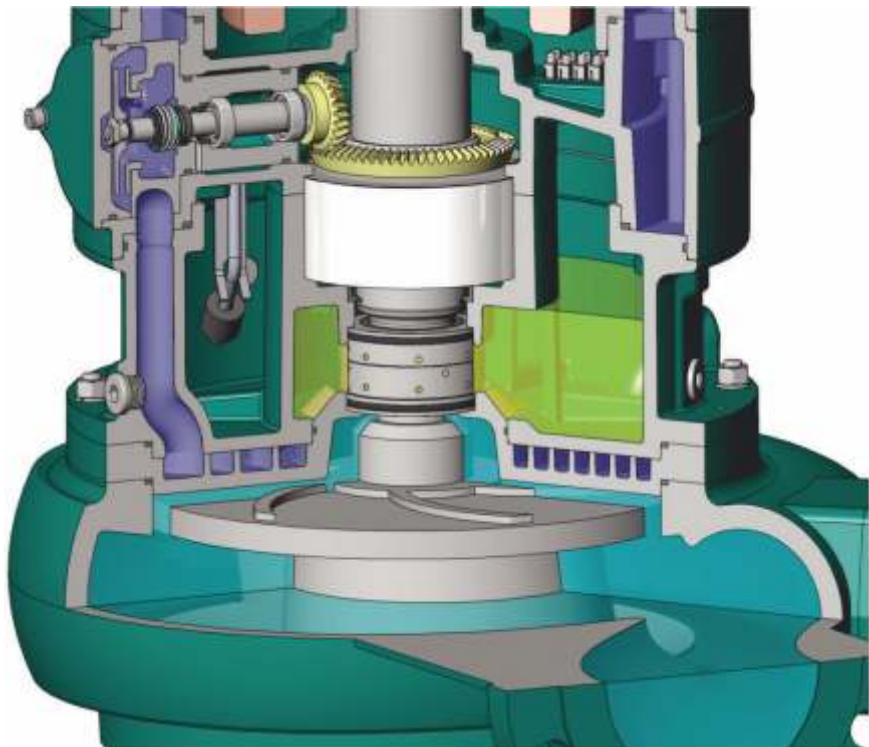
- Motor features
- High operational safety
 - Easy maintenance
 - Internal closed cooling circuit



Ceram. Lifelong corrosion protection.

With **ceram**, Wilo offers reliable protection against corrosive and abrasive fluids. This solvent-free, ceramic based coating guarantees the perfect corrosion protection of our products.

Ceram coatings are available in different versions (C0, C1, C2 and C3). For use in especially critical fluids, the individual versions can also be combined with each other. With **ceram**, a cost-effective alternative solution compared to special materials can also be offered.



Ceram quality	Layers	Thickness [mm]	Application
Ceram C0	1	0.4	Complete outer and inner coating
Ceram C1	1 – 3	1.5	Impeller and suction port coating
Ceram C2	1	1.5	Coating of the pump housing (inside)
Ceram C3	1	3	Coating of the pump housing (inside)

Hydro pneumatic Booster system



Volume flow	upto 900 m³/hr
Delivery head	upto 160 m
Temperature	upto 120°C

Features

- f Multipump pressure boosting system from two upto eight pump in SS construction
- f Fitted on a common baseplate with vibration dampers
- f Horizontal/ Vertical pumps
- f Variety of panels with single/multi VFD
- f With or without PLC panel with customised requirements

Standard Scope of supply

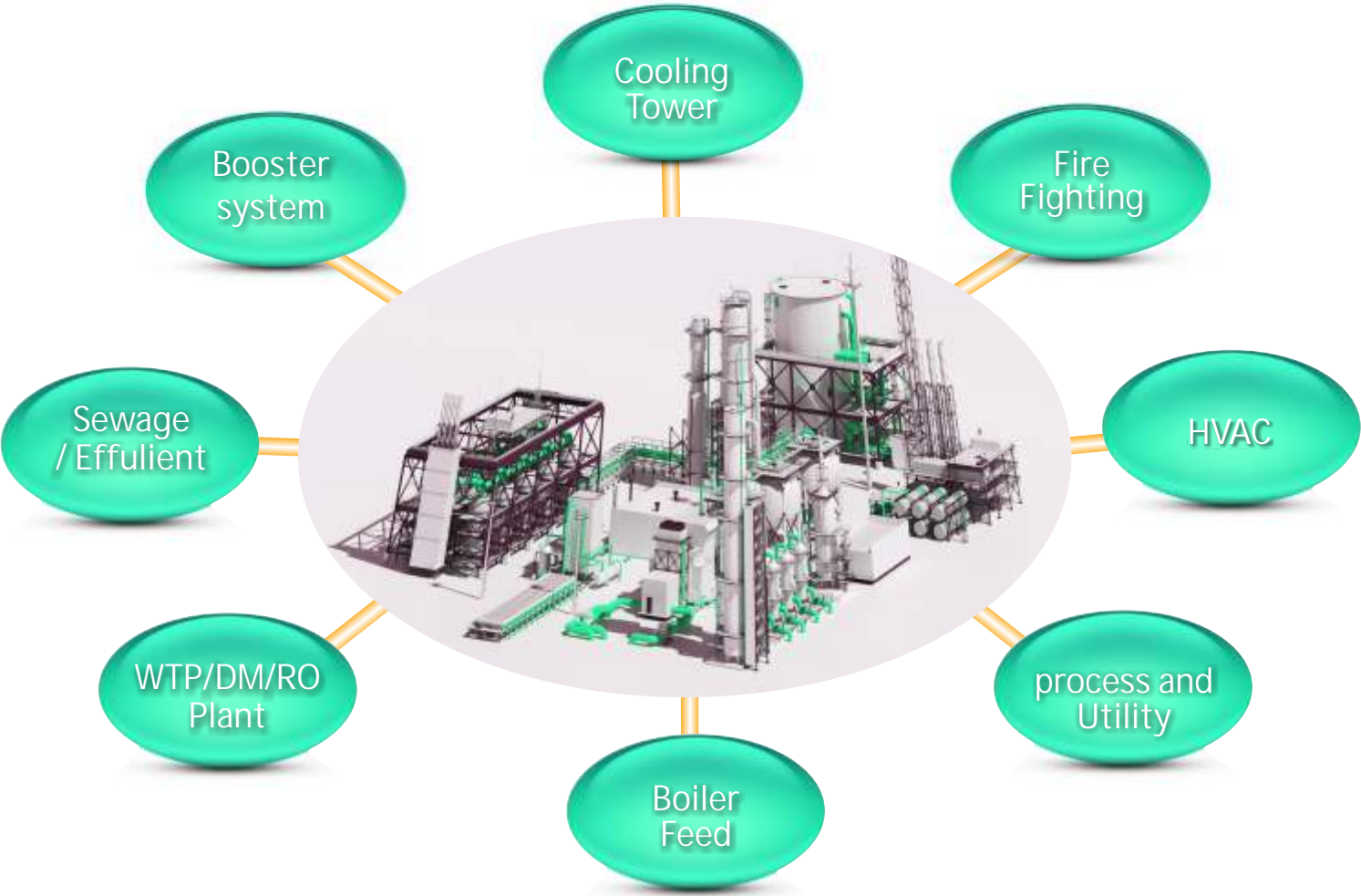
- f Suction Manifold
- f Discharge Manifold
- f Base Frame
- f Control Panel with Single/Multiple VFD
- f Pumps (Vertical inline/ Horizontal)
- f Non-Return Valve
- f Isolating Valve
- f Pressure Transmitter
- f Pressure Gauge
- f Dry run protection (Level Controller)
- f Motor



Reference List:

Sr. No.	Customer name	Application
1	Aurobindo Pharma Ltd	Skid Mounted Primary Chilled Water Pump sets & Panels with VFD's.
2	Aurobindo Pharma Ltd	Chiller, Brine, Fire, Utilities, Cooling water.
3	APL Healthcare Ltd	Fire
4	Aurobindo Pharma Ltd	Fire
5	Pravesha Industries Pvt.Ltd.	Cooling Water
6	Dr.Reddys Ltd	Cooling Water
7	Hetero Labs Limited	Desalination, Utilities, Fire, Chilled Water
8	Hetero Drugs Limited	Fire
9	Balaji Amines Ltd	Cooling Water, Utilities
10	Balaji Amines Ltd	Cooling Water
11	Mylan Laboratories Ltd	Fire, cooling water, Utilities, Primary Chilled Water Pump sets & Panels with VFD's.
12	Mylan Laboratories Ltd	Utilities
13	Virchow Petro Chemical Pvt .Ltd	Cooling water, chilled Water
14	Virchow Drugs Ltd	Cooling water
15	Polmon Vesnfer Pvt Ltd	Single Fluid Heat Transfer
16	Optimus Generics Limited	Cooling water, chilled Water, Fire
17	Shilpa Medicare Ltd.	Chilled water Pumpsets & Panels with VFD's.
18	Mankind Pharma	Brine, Chilled Water, Process, Utilities
19	Cipla Ltd.	Utilities
20	Vishnu Chemicals Ltd.	Cooling water
21	Biological E Ltd	Fire
22	MSN Laboratories Pvt. Ltd	Fire
23	Deccan Fine Chemicals Pvt.Ltd.	Fire
24	Shantha Biotechnics Pvt. Ltd	Cooling water
25	Indian Immunologicals Ltd	Cooling water, chilled Water
26	Posh chemicals Pvt.Ltd.	Fire
27	Raks Pharma Pvt.Ltd	Utilities
28	Raichem Life Sciences Pvt.Ltd.	Chilled water Pumpsets & Panels with VFD's.,Cooling water
29	Synnati Pharma Pvt.Ltd	Fire
30	Chandak laboratories (P) Ltd	Fire
31	Vasudha Organics Ltd	Utilities
32	Porus Laboratories Pvt Ltd	Utilities
33	Verdant Life Sciences Pvt.Ltd	Utilities
34	Symed Labs Ltd.	Fire
35	Neuland Laboratories Ltd.	Cooling water

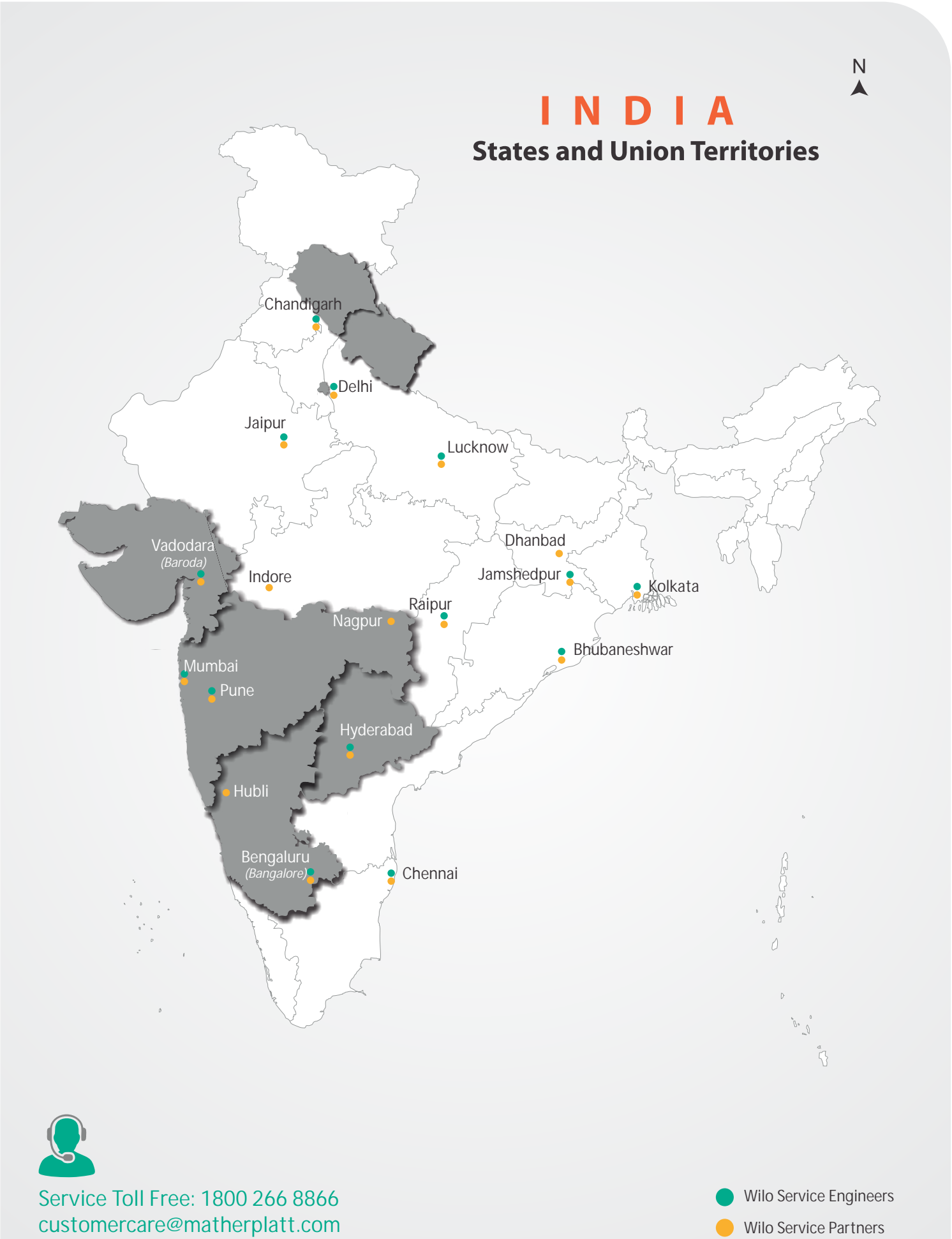
Application Matrix



Product Matrix:

Product Type	Product Model	Cooling Tower	Fire Fighting	HVAC	Process and Utility	Boiler Feed	WTP/DM/RO Plant	Sewage /Effluent
Horizontal Split Casing	SCP	●	●	●	●		●	
Vertical Turbine	VT	●	●					
Horizontal End Suction	MISO/PISO/NL		●	●	●		●	
Vertical Inline - Multistage	MVI		●	●	●	●	●	
Control panel			●	●				
Closed Coupled - Vertical Inline	IL			●	●			
Circulators	Star/TOP				●			
Horizontal Monobloc	MPM				●			
Horizontal Monobloc - Multistg	MHI/MHIL				●			
Multistage Ring Section	RN					●	●	
Non Clog	SK/MF							●
Submersible / Grit Collector	FAS/FAC/STS							●
Mixers / Diffusers / Aerator								●

Service Network



Service Toll Free: 1800 266 8866
customer@materplatt.com

● Wilo Service Engineers
● Wilo Service Partners