

# HIGH-POWER ULTRASONIC CLEANING **OIL AND GAS INDUSTRY**



## 50 YEARS OF EXPERIENCE IN THE OIL AND GAS INDUSTRY

### 28 KHZ HIGH-POWER ULTRASONIC CLEANING

---

UltraTecno is the world leader in the design and manufacture of **ultrasonic cleaning equipment**, developing efficient systems and obtaining excellent results in heavy-duty applications such as **degreasing** and **descaling**.

UltraTecno has created a solid **team of experts highly-equipped**, to develop maintenance and cleaning engineering systems by ultrasound for oil and gas industry.

Offering best post-sales **technical service and advice**, guaranteeing maximum customer satisfaction.



# ULTRASONIC CLEANING: THE BEST OPTION FOR THE MAINTENANCE OF THE OIL AND GAS INDUSTRY

Ultrasonic cleaning equipment works at a **frequency of 28 kHz**, being the key cleaning factor. The transducers from our machines emit a high level of energy that is released on the surface of the piece, eliminating dirt.

28 kHz frequency is required to optimise ultrasonic cleaning process. Power generated inside ultrasonic bath **eliminates important incrustations**, which are characteristics in **oil and gas industry**.

Energy generated at a frequency of 28 kHz capable to eliminate **heavy-duty dirt**, optimising factor ultrasonic cleaning process such as water, detergent and energy. As a consequence it eliminates dirt such as **rust remains, sludge, heavy oils, scale, grease, soot, dust, tar, asphalt, and other refining contaminants**.

Results of ultrasonic cleaning will be obtaining a **brand-new component, with same efficiency** as first day of use - **without damaging the piece**.



## COMPONENTS TO CLEAN

Heat exchangers  
Filters  
Plates  
Pipe sections  
Valves  
Solenoid valves  
Shells and tubes



**Smart  
Interface**



**Durable  
Construction**



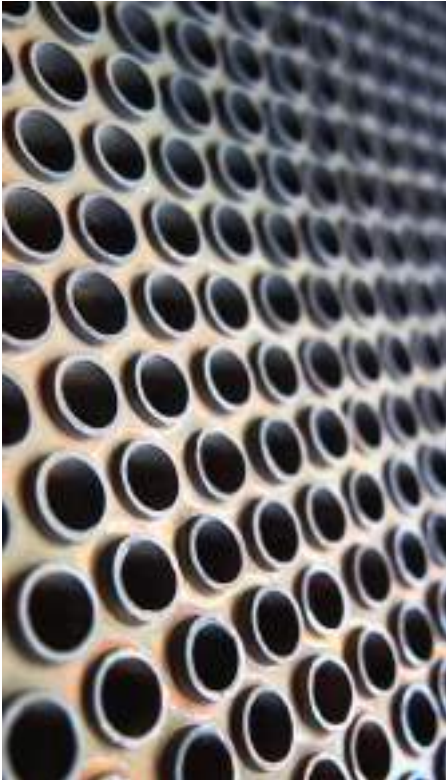
**28kHz  
Synchronized**



**Best cost effective  
Cleaner**



**Green  
Label**



#### Microscopic cleaning quality

Best surface cleaning quality.,

#### Homogeneous results

Even for components with complex geometries.

#### Savings in labor cost, water and energy

Ultrasonic cleaning optimizes all resources necessary for maintenance of oil and gas industry.

#### Cost efficiency

80% more efficient than traditional systems

#### Health and safety

Safer system for staff and working environment.  
It avoids direct contact with dangerous chemicals

#### Detergents and chemicals

Consumption reduction up to 6 times.

## BY FOLLOWING OUR RECOMMENDATIONS CHOOSE CORRECT MODEL

### GENERAL MAINTENANCE



N- Series & E- Series

### HEAT EXCHANGER MAINTENANCE

Max. diameter

<= 1.9 meters



HX

<= 2.5 meters



HX- WIDE

# ULTRASONIC CLEANING EQUIPMENT: MOST POWERFUL FOR OIL AND GAS INDUSTRY



- 28 KHZ POWERFUL ULTRASOUND TECHNOLOGY
- DIGITAL AND SYNCHRONIZED TECHNOLOGY
- ULTRASONIC EMITTERS SETS ON LATERAL WALLS
- FULL STAINLESS STEEL CONSTRUCTION
- MULTI-LANGUAGE COLOR HMI TOUCH-SCREEN
- OIL SEPARATION SYSTEM LFS®
- INSULATED TOP LID
- DOUBLE IFM LEVEL WATER SENSOR
- HYDRAULIC OR PNEUMATIC PLATFORM LIFT

## ADD OPTIONAL DEVICES

- AUTOMATIC EVAPORATED WATER REFILLING SYSTEM
- PERIMETER STEAM EXTRACTION SYSTEM
- CUSTOM-MADE BASKETS
- DOSING SYSTEM FOR LIQUID DETERGENT
- AUTOMATIC TOP LID
- DELTA ETHERNET MODULE
- HYBRID HEATING SYSTEM
- OTHER TAILOR-MADE SOLUTIONS

## MONITORING CLEANING PARAMETERS

- HEATING AND ULTRASOUND PROGRAMMABLE TIMER
- FULL PROCESS PARAMETERS CUSTOMIZATION
- MANUAL AND AUTOMATIC PRESET CYCLES
- ELECTRICAL CONSUMPTION MONITOR
- PREVENTIVE MAINTENANCE SCHEDULE
- BATH DETERGENT CALCULATOR

## Equipment for General Maintenance

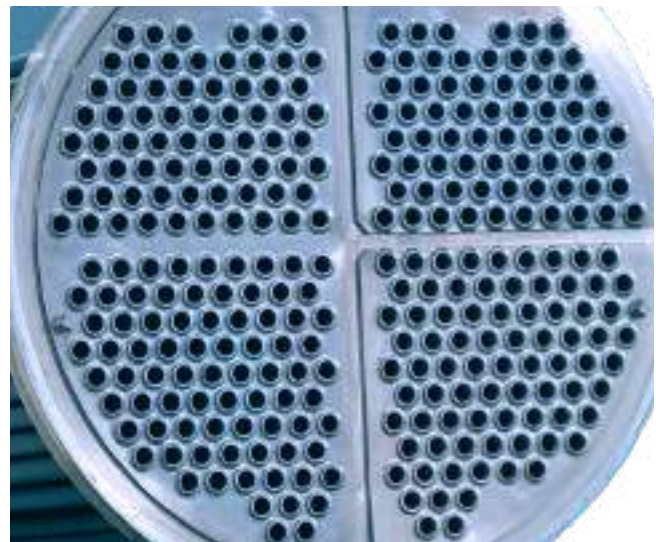
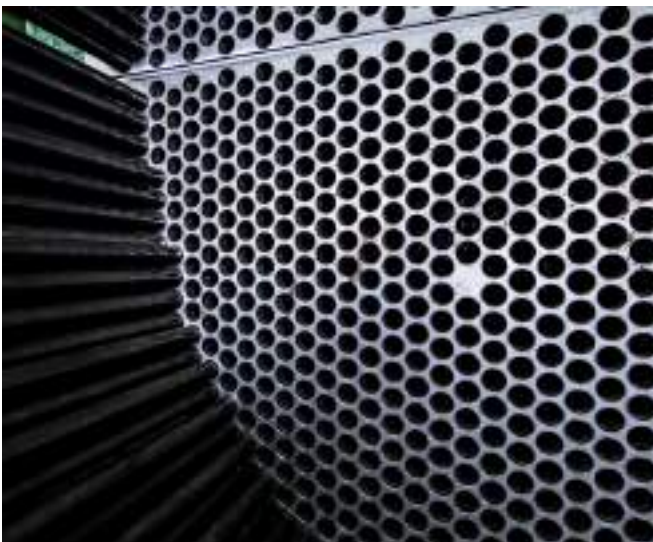
MODEL	MAIN TANK	ULTRASONIC POWER	HEATING POWER	INSULATED LID	INTERNAL DIMENSIONS MAIN TANK (MM)	PLATFORM LIFT * (MM)	MAX. LIFT LOAD
<b>ACM-350N</b>	405 LT	3 KW	11 KW	MANUAL	1000 X 650 X 623	952 X 495	250 KG
<b>ACM-500N</b>	587 LT	4 KW	11 KW	MANUAL	1200 X 670 X 730	1152 X 520	350 KG
<b>ACM-750N</b>	840 LT	5 KW	11 KW	MANUAL	1400 X 800 X 750	1335 X 630	500 KG
<b>ACM-1000N</b>	1224 LT	7 KW	15 KW	AUTO	1600 X 900 X 850	1552 X 726	800 KG
<b>ACM-2000N</b>	2178 LT	9 KW	22 KW	AUTO	1800 X 1100 X 1100	1666 X 913	1000 KG
<b>ACM-3000NW</b>	3279 LT	10 KW	30 KW	AUTO	1700 X 1590 X 1213	1565 X 1339	1000 KG
<b>ACM-3000N</b>	3276 LT	12 KW	30 KW	AUTO	2100 X 1300 X 1200	1966 X 1110	1000 KG
<b>ACM-4500N</b>	5190 LT	15 KW	36 KW	AUTO	2400 X 1590 X 1360	2217 X 1251	1800 KG
<b>ACM-5500N</b>	6010 LT	18 KW	45 KW	AUTO	2700 X 1590 X 1400	2600 X 1400	1800 KG
<b>ICM-8000N</b>	9184 LT	27 KW	60 KW	AUTO	3200 X 2050 X 1400	N/A	N/A
<b>ICM-12000N</b>	13258 LT	36 KW	75 KW	AUTO	4600 X 1950 X 1460	N/A	N/A

\*IT IS POSSIBLE MANUFACTURING ACM-N MODELS WITHOUT ELEVATOR (ICM). YOU CAN REQUEST THE DETAILED TECHNICAL SHEETS FOR EACH MODEL

## Equipment for Heat Exchangers

MODEL	MAIN TANK	ULTRASONIC POWER	HEATING POWER.	TRANSPORTABLE UNIT	INTERNAL DIMENSIONS MAIN TANK (M)	HEATING TIME TO 60 C°	OUTDOOR
<b>HX-18000</b>	18.354 LT	96 KW	135 KW	YES	4.2 X 1.9 X 2.3	13H	YES
<b>HX-24000</b>	24.909 LT	128 KW	180 KW	YES	5.7 X 1.9 X 2.3	15H	YES
<b>HX-31000</b>	31.027 LT	160 KW	225 KW	YES	7.1 X 1.9 X 2.3	15H	YES
<b>HX-37000</b>	37.145 LT	192 KW	270 KW	YES	8.5 X 1.9 X 2.3	15H	YES
<b>HX-43000</b>	43.700 LT	224 KW	315 KW	YES	10 X 1.9 X 2.3	15H	YES
<b>HX-24000W</b>	24.150 LT	128 KW	162 KW	YES	4.2 X 2.5 X 2.3	15H	YES
<b>HX-33000W</b>	32.775 LT	160 KW	189 KW	YES	5.7 X 2.5 X 2.3	13H	YES
<b>HX-41000W</b>	40.825 LT	208 KW	270 KW	YES	7.1 X 2.5 X 2.3	15H	YES
<b>HX-49000W</b>	48.875 LT	240 KW	324 KW	YES	8.5 X 2.5 X 2.3	15H	YES
<b>HX-57000W</b>	57.500 LT	272 KW	378 KW	YES	10 X 2.5 X 2.3	15H	YES

## OIL AND GAS CLEANING EXAMPLES



## CLEANING PRODUCTS

---

UltraTecno provides **specific developed and tested chemicals**. Carried out over many years in all our market niches.

Offering wide range of **high-quality cleaning products**, distributed under our own brand.

Detergents are specifically formulated for ultrasound cleaning processes, considering use for different types of material such as, cast iron, steel, aluminium, brass, and copper.



**ULTRATECNO PROVIDES SUITABLE CHEMICAL AGENT THAT BEST ADAPTS TO YOUR NEEDS.**

## SOME OF OUR CLIENTS

---



*Innovation, Quality, Efficiency and Commitment*

