

WAREWASHING  
HOOD-TYPE DISHWASHER



# PROFI AMX/AUX

EFFICIENT – RELIABLE – INNOVATIVE

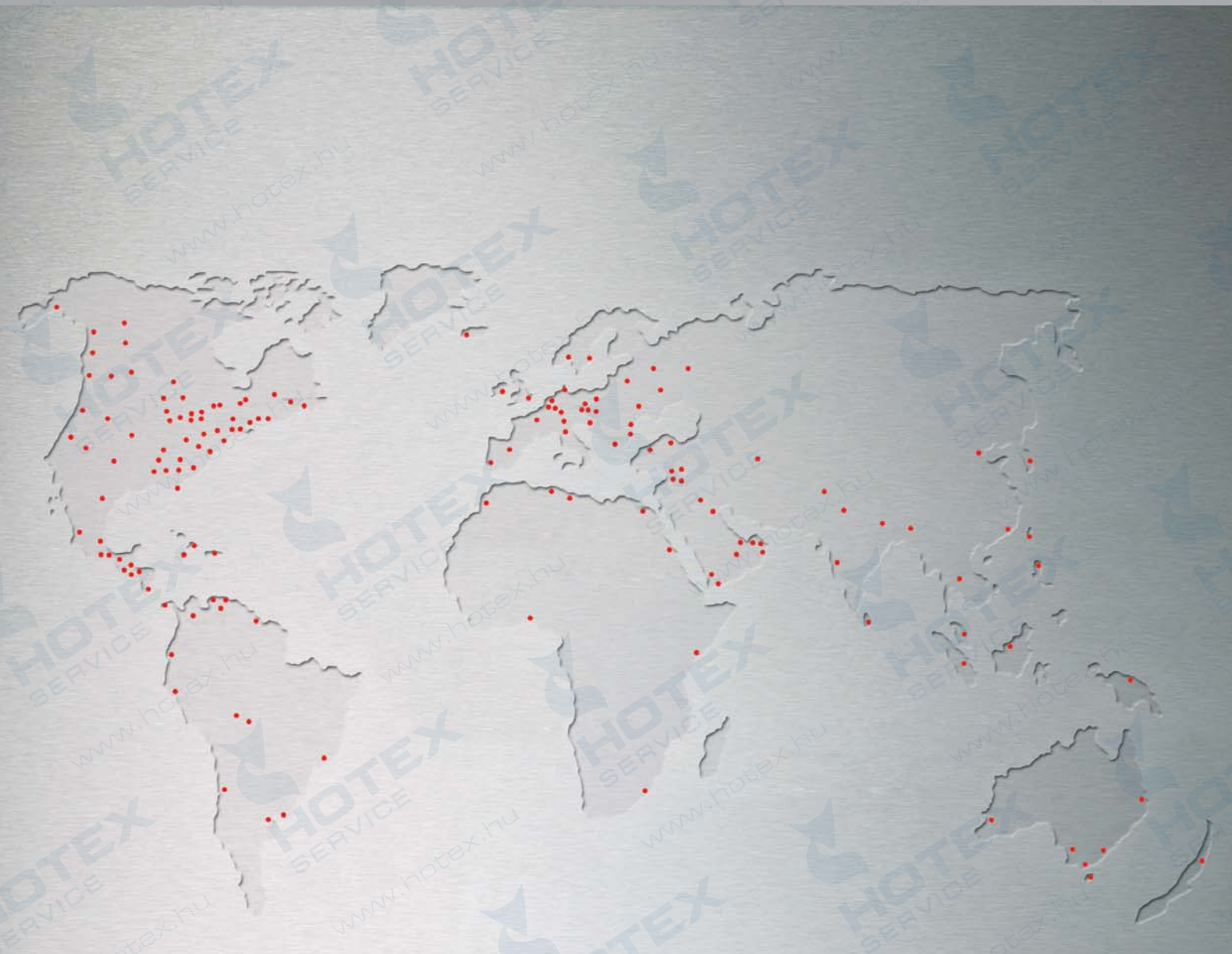


## MADE IN GERMANY

„Made in Germany“ has been synonymous with quality and reliability in the premium segment for a long time and still is today. A company can only maintain its hold on the market by keeping its promise to continually deliver high quality.

## WORLDWIDE

Whether you need a completely new kitchen or a replacement item our competent subsidiaries and partners all over the world would be pleased to support you. It's nice to know we are always there.



1883 Mr. Charles Clarence Hobart builds his first engines and generators in Middletown, Ohio.

1886 J.C. Cochran receives the patent for the first dishwasher.

1897 The HOBART ELECTRICAL MANUFACTURING COMPANY was founded in Troy Ohio, through the acquisition of the engine and generator factory of the HOBART family.

1903 HOBART builds the first food processor (a self-contained powered coffee mill).

1926 HOBART purchases The Crescent Washing Machine Company, and enters the commercial warewashing market: the first warewashing machine carrying a HOBART label.

1930 Foundation of the HOBART MASCHINEN GESELLSCHAFT in Hamburg, Germany.

1953 HOBART receives the patent for the first flight-type dishwasher.

1960 Acquisition of the dishwashing department of the company K. Martin, Offenburg, Germany.

1980 Production plant in Elgersweier, Germany, was newly built.

1986 PREMARK INTERNATIONAL GROUP was formed in Deerfield, Illinois.

1997 HOBART CORPORATION'S 100th anniversary.

1999 Integration of PREMARK into ITW.

2007 HOBART presents its new dishwasher generation PREMAX.

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## HOBART PHILOSOPHY

### UNDERSTAND – SIMPLIFY – FOCUS – INNOVATE

This philosophy provides the continuing motivation to develop innovations, which are the best driver of economic development and a guarantee for job security. It is a philosophy of the essential, of customer value, of simplicity. A philosophy built on the conviction that things created for a purpose and with logic, do not need to be completely renewed, but must instead be subject to continuous evolution.

## HOBART VISION

### “WASH WITHOUT WATER“

Before PREMAX, a flight-type dishwasher with a 50% water saving would have been utopia. At HOBART, efficiency and responsible use of natural resources when developing new machines have always gone hand in hand. With PREMAX, the company has set a further milestone, and has further extended its leadership in innovation. But even so, HOBART is not satisfied with this. The company will not diminish the pace of its innovation, and will look for further opportunities to save even more. When the day arrives that a machine is able to wash without water, we already know, it will be a PREMAX.

## HOBART FOCUS

### INNOVATION

Without the readiness to invest in the future, without the natural reaction of always questioning ourselves, without interdisciplinary basic research and consistent customer focus, PREMAX would be inconceivable.

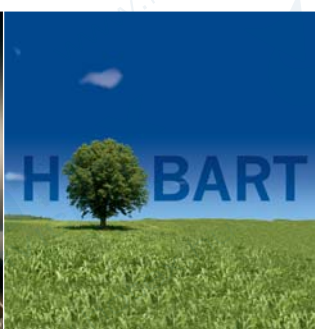
Worldwide, over 300 research and development engineers and global marketing teams, who identify customer requirements, as well as the company's own Tech-Center, with over 1,000 patent applications annually, develop innovative technology and make PREMAX possible.

### ECOLOGY

The HOBART environmental protection program CO<sub>2</sub>NSEQUENT has been in existence for some time. The program includes a large number of measures that are all related to protecting the environment. These measures are implemented in production, purchasing, the development and sale of products and in additional projects.

### ECONOMY

Already in the early 1980s our E-formula set standards in energy saving and recovery which are still unique today. This innovative spirit found its fulfillment in the PREMAX line. The PREMAX flight-type dishwasher saves up to 50% water, 30% energy, and 80% chemicals in comparison with conventional technologies, making HOBART a model in terms of efficiency and economy.



1

2

3

4

1 „We place huge importance on first class results from our dishwasher – and even at peak times, our HOBART never lets us down.”

2 „It took me a long time before I worked out how to use our old machine properly. Fortunately, it's very simple to use our new HOBART machine – just one button for everything. Our staff find it very easy.”

3 „The state funding provided to schools has been put to extremely good use in the canteen. In a 45 min. period we need to serve 750 pupils and do this with one HOBART machine. We even manage to get the pots, pans and utensils cleaned too!”

4 „In our region, we make our living from our beautiful surroundings. That is why I pay special attention to solutions which save on resources. With their drain heat recovery system, HOBART speaks my language.”

Marek Frytowski  
Hotel Wisła  
Bydgoszcz, Poland

Silvio Manzoni  
Pasticceria Manzoni  
Luino, Italy

Tatijana Sidorov  
Anton-Tschechow school canteen  
Moscow, Russia

Carlos Hernandez  
Restaurante El Portalón  
Pamplona, Spain



# PROFI AMX/AUX

EFFICIENT – RELIABLE – INNOVATIVE

## 1 | WASH RESULT

**PATENT  
PENDING**

### FINE FILTER SYSTEM GENIUS-X<sup>2</sup>

Permanently clean wash water is the key requirement for an optimal wash result with less detergent and water consumption. In the next generation GENIUS-X<sup>2</sup> fine filter system, the wash water is continuously led through a system of filters.

During the wash cycle the majority of soil particles are removed during the first phase of draining. Any remaining soil particles are retained in the filter and are then removed during the second stage of draining, just before the final rinse. The tank water is then replenished with 2,5 liters of fresh hot rinse water. This optimal regeneration ensures a perfect wash result.

The GENIUS-X<sup>2</sup> cleans itself during the draining phase. GENIUS-X<sup>2</sup> helps to reduce water usage by up to 30 %.

**PATENT  
PENDING**

### WIDE ANGLE NOZZLE FAN

Wash efficiency depends largely on the distribution of the wash water and on avoiding any masked areas. Spraying angles and the precision of the wash jets are vital factors in achieving a powerful, searching wash action and the HOBART designed wide angle nozzles FAN provide a substantially broader and more precise spray pattern. Compared with conventional and fixed wash arm systems the wash water is distributed more efficiently, masking is avoided and the wash result, especially in the corners, is considerably improved.

## STRONG – HYGIENIC – CLEAN



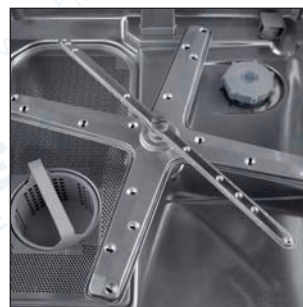
The fine filter system GENIUS-X<sup>2</sup>, with integrated pre-washing process, filters the wash water continuously and then pumps out the soil particles.

### WASH SYSTEM ROTOR-X

A perfect wash result is only achieved if the detergent makes contact with the entire surface of the wash ware items, dissolving and binding the soil. Therefore the wash water must reach every point of the items, and the more thoroughly and intensively this occurs, the better the result. The rotating ROTOR-X wash system consists of two 4 spoke wash arms, one above and one below. The rotation of the wash arms creates the necessary mechanical wash action, and at the same time the precise wash pattern of the FAN wide angle nozzles ensures that the wash water reaches every part of the wash ware.

The ROTOR-X wash system guarantees an outstanding cleaning result over the entire surface.

## EVERYWHERE – CONSTANT



The rotating 4 spoke wash arms create a deflection off the internal walls of the hood, and thereby intensify the wash action.



With the ROTOR-X wash system, the detergent works over the entire surface of the items being washed.

**HOBART**



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## 1 | WASH RESULT

**PATENT  
PENDING**

### PERMANENT WASH PROGRAM

The permanent wash program is built-in as standard and can be adapted anytime to heavily soiled wash ware. No need to run a second cycle, only the wash phase is extended. No additional detergent dosing or rinsing is necessary. Time is saved and operation costs are reduced.

### HEAT ELEMENT ECOTHERM

A consistently high wash temperature extracts maximum cleaning performance from the wash water. HOBART research has established that higher washing temperatures optimize detergent performance. ECOTHERM ensures a constant 60°C even during continuous use. The extra heat absorbed by the washed ware also improves the drying result.

### WASH PROGRAM POWER-PLUS

The longer the dishes are left before being washed, the harder food residues stick to the crockery. After an extended period of drying on, it may be necessary either to prewash the ware, or to run it several times through the dishwasher in order to achieve a hygienic wash result. The POWER-PLUS wash program delivers increased washing pressure, through pumps connected in series. Contrary to conventional programs, even difficult to remove food residues are washed off without the need for pre-cleaning. The POWER-PLUS wash program guarantees a perfect wash result even with difficult to remove food residues.

### STRAINER CONTROL SYSTEM PROOF

Clean wash water and accurate detergent dosage are key factors in achieving a clean and hygienic wash result. An efficient filter system is useless if it is not in the right position.

The strainer control system PROOF has an interlock which is continuously monitored by the SMARTRONIC control. The wash cycle can only be activated if the filter is correctly positioned.

## EFFICIENT – CONSTANT



The ECOTHERM heat element maintains the wash water at a constant temperature even in continuous operation.

## FLEXIBEL – RELIABLE



If the filter is missing or not inserted correctly, the SMARTRONIC displays a warning.

# HOBART

## 2 HANDLING

**PATENT  
PENDING**

### SINGLE BUTTON SMARTRONIC

In any busy establishment the dishwasher must be easy to operate and customers tell us that having simple, understandable controls is of big importance. The SMARTRONIC control with single button operation indicates the machine status in clear, self explanatory colours. Only the essential functions such as filling and heating, washing and rinsing, ready for use, and draining are indicated. Incorrect operation and misuse are eliminated. Additional functions can be accessed as required.

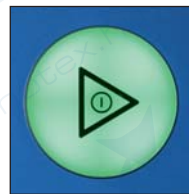
### REFILL SIGNAL

The integral low level signal indicates when detergent and rinse agent need refilling. This guarantees a perfect wash result every time.

### EASY – INTELLIGENT

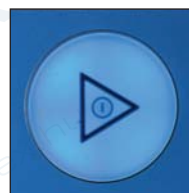


The simple SMARTTRONIC control combines the most important functions into just one STARTER button.



THE STARTER shows the current operation status in self-explanatory colours:

ready for operation ...



... and washing





# PROFI AMX/AUX

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## WATER SOFTENING SYSTEM NONSTOP

Lime scale is a major cause of poor wash results and machine problems. Deposits build up on machine parts, in the boiler and on heating elements reducing efficiency, increasing running costs and causing failures. Detergent performance is also significantly reduced.

The optional NONSTOP integral water softening system provides continuously and automatically soft water and eliminates the downtime or extended program times typically associated with other integral softener systems. The dishwasher, and in particular, the heating elements are maintained in optimum working order for efficient performance.

## FILTER OBSTRUCTION SENSOR

If there is a lot of soil in the machine, the filter may become clogged. The filter obstruction sensor registers this, and displays a warning on the control panel. This function assists the operating personnel and ensures proper ongoing dishwashing operation.

## HOOD DESIGN EASY-LIFT

The physical effort required to open and close the hood when loading and unloading the machine is reduced considerably.

This is significant from an ergonomic point of view.

The EASY-LIFT hood is the easiest hood on the market to operate, thanks to its innovative design. The effort needed for opening is 50% less than with normal machines. This reduces the strain on operators and makes their work easier.

## HOOD LIFT

The optional automatic hood lift opens the hood automatically at the end of the program, and closes it at the push of a button.

The automatic hood lift delivers maximum convenience for the operators.

## CONTROL – PERMANENT



An easily accessible filler cap and a large refill opening allow quick and simple salt replenishment for the water softener NONSTOP.

## SAFE – CONVENIENT



The EASY-LIFT hood design reduces the physical strain on operators.

## 3 | ECONOMY

### HOOD CONCEPT E-STORE

When opening the hood of a conventional machine, the hot steam escapes from the hood's open rear side. This cools the interior space and the hood itself. During the subsequent wash program, the cooled interior space and the cooled hood take heat from the wash water. To restore the necessary temperature in the machine, this energy loss must be compensated by extra heating power. The E-STORE hood concept is based on a fully enclosed 4sided hood. When the hood is opened, the hot steam remains in the hood. The heat energy is retained, and does not need to be replaced in the subsequent wash process. This saves up to 3 kWh or up to approx. 820 Euro per year\*.

The E-STORE hood concept saves energy and reduces operating costs.

\*based on 15 Cent/kWh, 5h/day, 365 days/year

### HEAT AND SOUND INSULATED HOOD

15 mm hood insulation helps to retain further valuable energy during operation. The wash water does not lose heat through the hood which increases heat conservation and thereby saves energy. The fully enclosed hood enhances the energy-saving effect of the insulation.

### RINSE SYSTEM ACCURINSE

Ensuring constant temperature and volume of clean rinse water is vital to achieve not only clean, but hygienically clean table-ware.

The HOBART system "pulls" rather than "pushes" the rinse water through the booster and is totally independent of flow pressure on site thus preventing any mixing with incoming cold water.

The ACCURINSE system delivers precisely 2.5 l of fresh water at approx. 80°C every cycle to ensure perfect hygiene standards. In addition the precision of ACCURINSE saves up to 30 % water, energy, detergent and rinse aid.

### HEAT RECOVERY E-SAVE

In conventional professional dishwashers, the soil is pumped out of the tank with a fixed quantity of water after each wash cycle. The waste water has an average temperature of approx. 60°C, and so the energy stored in the water as heat is lost.

In the E-SAVE heat recovery system the hot waste water passes against the incoming cold water in a heat exchanger. The heat exchange which thus occurs heats the cold water up to approx. 45°C. As a result, the energy required to reach the final rinse temperature of approx. 85°C is reduced by as much as 6.5 kWh and saves up to 1,800 Euro per year.\* E-SAVE heat recovery uses the energy already in the machine, and saves operating costs.

\* based on 15 Cent/kWh, 5h/day, 365 days/year

## EFFICIENT – OPTIMAL



With the E-STORE hood concept, the hot steam remains in the hood, saving energy and protecting your wallet.

## ECONOMICAL – ECOLOGICAL



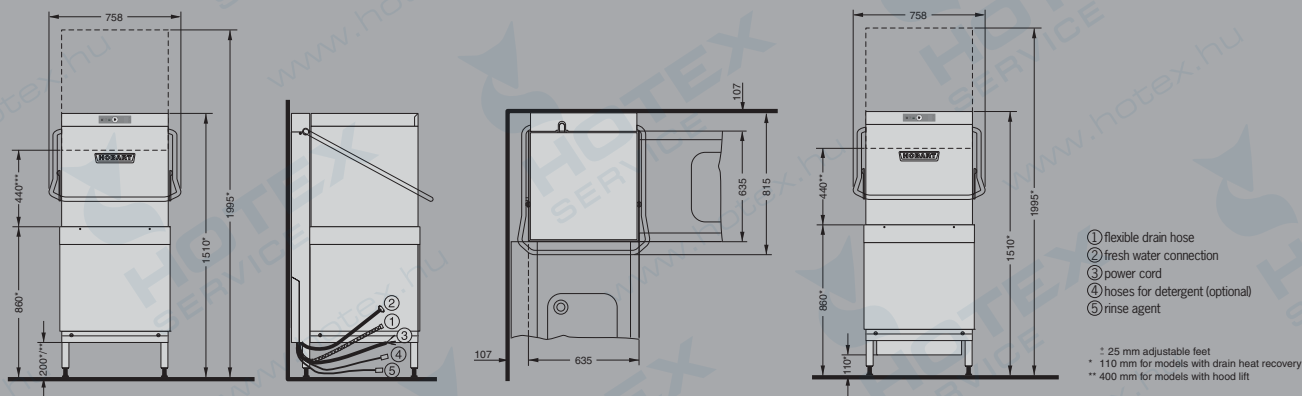
Up to 1,800 Euro of energy savings thanks to E-SAVE heat recovery.

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## 4 | FEATURES

MODEL	AMX	AMXR	AMXX	AMXXR	AUXX	AUXXR
<b>WASH RESULT</b>						
Fine Filter System GENIUS-X <sup>2</sup>	✓	✓	✓	✓	✓	✓
Wash Program POWER-PLUS	–	–	–	–	✓	✓
Wash System ROTOR-X	–	–	✓	✓	✓	✓
Wash System ROTOR	✓	✓	–	–	–	–
Wide Angle Nozzles FAN	✓	✓	✓	✓	✓	✓
Heat Element ECOTHERM	✓	✓	✓	✓	✓	✓
Permanent wash program	–	–	✓	✓	✓	✓
Strainer Control System PROOF	✓	✓	✓	✓	✓	✓
Drain pump	✓	✓	✓	✓	✓	✓
Rinse aid dispenser	✓	✓	✓	✓	✓	✓
Detergent dispenser	✓	✓	✓	✓	✓	✓
<b>HANDLING</b>						
Single Button SMARTRONIC	✓	✓	✓	✓	✓	✓
Refill Signal	✓	✓	✓	✓	✓	✓
Water Softening System NONSTOP	optional	optional	optional	optional	optional	optional
Filter obstruction sensor	✓	✓	✓	✓	✓	✓
Hood Design EASY-LIFT	✓	✓	✓	✓	✓	✓
Automatic hood lift	optional	optional	optional	optional	optional	optional
Corner version possible	✓	✓	✓	✓	✓	✓
<b>ECONOMY</b>						
Hood Concept E-STORE	✓	✓	✓	✓	✓	✓
Heat and sound insulated hood	optional	optional	✓	✓	✓	✓
Rinse System ACCURINSE	✓	✓	✓	✓	✓	✓
Heat Recovery E-SAVE	–	✓	–	✓	–	✓
Rack equipment	1 x plate rack, 1 x universal rack, 1 x cutlery rack	1 x plate rack, 1 x universal rack, 1 x cutlery rack	2 x plate rack, 1 x universal rack, 1 x cutlery rack	2 x plate rack, 1 x universal rack, 1 x cutlery rack	2 x plate rack, 1 x universal rack, 1 x cutlery rack	2 x plate rack, 1 x universal rack, 1 x cutlery rack



## 5 TECHNICAL DATA

MODEL	AMX	AMXR	AMXX	AMXXR	AUXX	AUXXR
<b>Cycle times</b> in sec. [1]	60 / 90 / 120	60 / 90 / 120	52 / 75 / 120 / > 120	52 / 75 / 120 / > 120	52 / 90 / 240 / > 240	52 / 90 / 240 / > 240
<b>Capacity</b> [2]						
Racks / h	60	60	70	70	70	70
Dishes / h	1080	1080	1260	1260	1260	1260
Glasses / h	2160	2160	2520	2520	2520	2520
<b>Temperature</b> in °C						
Wash temperature approx.	60	60	60	60	60	60
Rinse temperature approx.	85	85	85	85	85	85
<b>Tank volume</b> litres	21	21	33	33	40	40
<b>Fresh water consumption per cycle</b> litres	2,5	2,5	2,5	2,5	2,5	2,5
<b>Pump capacity</b> in kW / l / min	0,7 / 350	0,7 / 350	1,1 / 600	1,1 / 600	2 x 1,1 / 600	2 x 1,1 / 600
<b>Heat output</b> in kW						
Tank	2,5	2,5	2,5	2,5	2,5	2,5
Booster kW*	6,15	6,15	12,3 / 6,15	6,15	12,3 / 6,15	6,15
<b>Total loading</b> in kW	7	7	15,9 / 9,7	7,3	17,1 / 10,9	8,5
Fuse in A	3 x 16	3 x 16	3 x 35 3 x 25	3 x 16	3 x 35 3 x 25	3 x 16
Nominal voltage in V / Hz / N-PE	400 / 50 / 3	400 / 50 / 3	400 / 50 / 3	400 / 50 / 3	400 / 50 / 3	400 / 50 / 3
<b>Dimensions</b> in mm						
Width	635	635	635	635	635	635
Depth	635	635	635	635	635	635
Height	1510	1510	1510	1510	1510	1510
Open hood height	1995	1995	1995	1995	1995	1995
Loading height	440	440	440	440	440	440
Rack size	500 x 500 500 x 530	500 x 500 500 x 530	500 x 500 500 x 530	500 x 500 500 x 530	500x500 500x530	500x500 500x530

## WATER TREATMENT

### WATER SOFTENING SYSTEM

to protect against calcium deposits  
Mod. SE output 1,600 litres at 10° d (total hardness)

### PARTIAL DESALINATION CARTRIDGES

for sparkling wash results when the raw water contains minerals  
Series TE output of 7,000 to 16,000 litres at 10° d (carbonate hardness)

### FULL DESALINATION CARTRIDGES

for sparkling wash results when the raw water has a high mineral content. Series VE output of 5,000 litres at 10° d (total salt content)



[ 1 ] The machine is equipped with an automatic cycle-time control in order to achieve a hygienic rinse temperature even for cold-water utilities or reduced heating performance.  
[ 2 ] Theoretical performance  
\*Multi-Setting: The heater output can be reduced at site from 12.3 kW to 6.15 kW if required.

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HOOD-TYPE DISHWASHER

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## ALWAYS RIGHT

Whether in the hotel and restaurant industry or in community care, tableware as well as cooking utensils and equipment must be washed effectively and hygienically.

Thanks to the ROTOR-X wash system with its 4 spoke wash arms, and the GENIUS-X<sup>2</sup> fine filter system, the PROFI AMX/AUX series is ideally suited to your requirements.

The PROFI AMX/AUX sets new standards in terms of efficiency. Through the implementation of new technology and a hood that is closed on all sides, up to 30% can be saved in operating costs.



WAREWASHING

COOKING

FOOD PREPARATION

WASTE TREATMENT

SERVICE

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Member of the *ITW* Food Equipment Group Europe

