

WASTE TREATMENT  
WET WASTE DISPOSAL

# SERIES ECOLO

EFFICIENT – RELIABLE – INNOVATIVE

## ECONOMIC – POWERFUL

The need to efficiently dispose of food waste is continually increasing, especially in hospitals, refectories and canteens. The Ecolo can handle a variety of food waste. Special blades are available for tendons, fish skins and disposable ware. The optional self-cleaning program helps staff to clean the machine.



WAREWASHING

COOKING

FOOD PREPARATION

WASTE TREATMENT

SERVICE

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Member of the *ITW* Food Equipment Group Europe

**EFFICIENT – RELIABLE – INNOVATIVE**





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## MADE IN GERMANY

„Made in Germany“ has been a synonym for quality and reliability in the segment of high quality for a long time and still is today. A company can only maintain its hold on the market by keeping its promises as to quality and by producing permanently high quality.



- 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, by 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 build
- 1986 PREMARK INTERNATIONAL GROUP emerged in Deerfield, Illinois.
- 1997 HOBART CORPORATION'S 100th anniversary.
- 1999 Integration of PREMARK into ITW
- 2007 HOBART presents it's new dishwasher generation PREMAX

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## HOBART

The world's first self-contained powered coffee mill was introduced to the market in 1903. There was a clear objective behind this development: to simplify the daily work in the kitchen - rationally and economically. This coffee grinder was a HOBART invention.



The products meet exceptional quality standard. This is the result of a constant adaptation to customer's needs. HOBART products, their installation and an outstanding after sales service is provided globally via an extensive network of branches and fully trained international distributors.



### The Brand-name for Quality and Innovation.

Starting from small undercounter dishwashers to large semi- and fully-automatic warewash solutions HOBART is market leader in commercial warewash and catering equipment for bars, restaurants, canteens, bakeries, butcheries, hospitals, cruise vessels and airports.

### Understand - Simplify - Focus - Innovate

According to our company's philosophy above we are continuously motivated to innovate and improve our products, thus giving our customers state of the art equipment, tailored to their needs.

1 "Leftovers are disposed off at once. The waste management is integrated into the dishwashing system."

Paolo Carsaniga,  
Factory canteen SOB AG,  
Rome

2 "Especially at big events there is less space in the kitchen. Due to reduced volume there is no additional need for waste containers."

Erik Jörgensen,  
Congress Hotel NOVO,  
Stockholm

3 "The staff doesn't have to pick up the waste several times, i.e. from the bin under the table into the big waste container and then to the collecting station. The ECOLO reduces the waste; residuals are directly transported into the waste container - clean and hygienic."

Ariane Brown,  
Hygiene specialist,  
Hospital Washington

4 "Today waste charges have definitely become an issue. As the ECOLO reduces waste volume considerably, we save a lot of money."

Daniel Schmidt,  
AWT manager,  
Medical centre Ulmendorf

- 1
- 2
- 3
- 4



## 1 | CAPACITY

### PULPER

Leftovers from meat, vegetable and pasta make greatest demands to the pulper. The blades made of hardened stainless steel are extremely robust and long-living. Even large quantities are chopped without any problem. Special blades are available for other waste such as plastic materials or bones.

### HIGH CAPACITY

At peak times up to 7.5 kg leftovers per minute are disposed of. A powerful motor is essential for a reliable treatment of leftovers- even at maximum load.

### 2-PHASE-TREATING-PROCESS

High capacity wet waste treatment units deliver significant volume reduction. The 2-phase-treating process reduces the volume of leftovers by up to 80%. Energy- and freshwater consumption is reduced by repeated use of process water.

## 2 | SAFETY

### SAFETY INTERLOCKS

Safety first for wet waste disposal! It is important to prevent the staff from reaching inside the pulper. An automatic safety lock prevents opening of the pulper cover during operation. Operation is only possible after replacing all covers.

### SAFETY DISTANCE

The distance between the pulper and garbage chute has been designed to minimize the risk of injury when adding waste produces.

## ROBUST – LONG-LIVING



Hardened stainless steel blades are robust and reliable, reducing wear to a minimum for prolonged life.



The powerful motor guarantees consistent pulping of leftovers.

## SAFE – RELIABLE

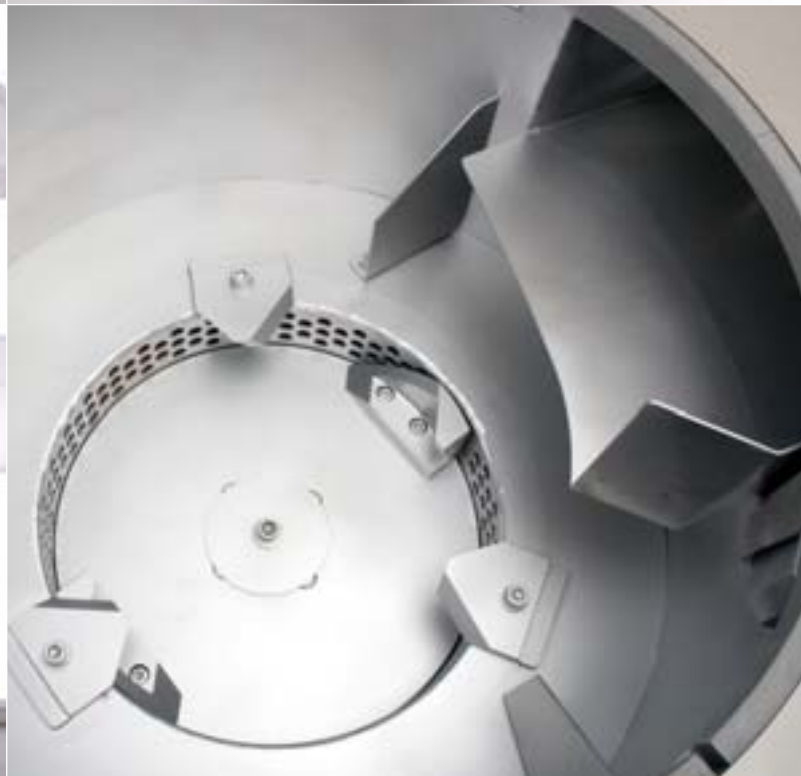


Accidental access during operation is avoided due to automatic safety lock.



Safe input of waste.

**HOBART**





## 3 | OPERATION

### EasyTronic

Incorrect operation is avoided due to symbols and push-buttons which are clearly arranged and easy to understand.

### HIGH PERFORMANCE MAGNET

Cutlery is often put into the machine together with the food waste. They damage the blades in the pulper. A high-performance magnet captures cutlery in the garbage chute. The staff can remove these parts easily and without having to interrupt operation.

## 4 | CLEANING

### STRAINER CYLINDER WITH SCREW CONVEYOR

The machine has to be cleaned every day. The cover can easily be removed without tools providing access to strainer cylinder and screw conveyor, which are also easily removable.

### BREAKER

Large and smooth surfaces as well as large radiused simplify cleaning of the pulper. In addition the optional cleaning programme helps the staff to clean the unit.

## EASY – INTELLIGENT



EasyTronic: Easy to understand and easy to operate



A high-performance magnet under the garbage chute traps cutlery and so damage is avoided.

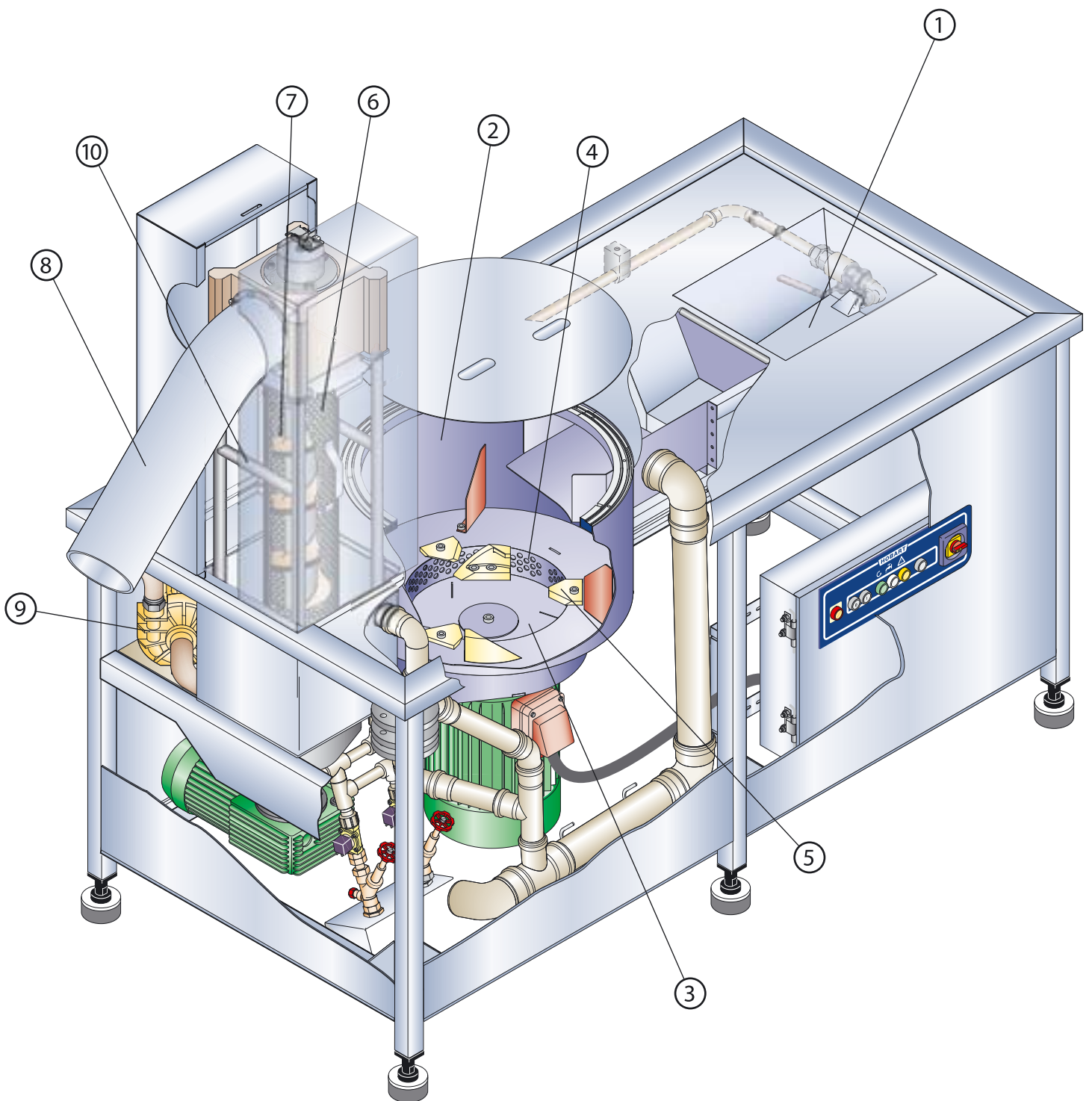
## HYGIENIC – CLEAN



The strainer cylinder and screw conveyor are easily accessible and removable.



Large and smooth surfaces allow easy cleaning.



## 5 | MODE OF OPERATION

### **THIS IS HOW THE HOBART WET WASTE TREATMENT UNIT ECO 355 WORKS.**

Food waste is flushed via the garbage chute into the pulper which is filled with water. The grinding disc is equipped with two rotating cutters which also create a strong suction which pulls debris towards them.

This process continues until the particles are small enough to pass through the holes in the strainer ring. Now the first phase is finished.

Note: The delta cutting blades are double sided. By turning the blades over useful life is prolonged.

In the second phase of the process the chopped waste is transferred into the strainer cylinder.

Here the screw conveyor transports the particles upwards towards a pressure plate where they are compressed and most of the water is squeezed out.

The waste then leaves the Ecolo via a chute and is collected in a suitable receptacle.

The water which was squeezed out is re-circulated to the garbage chute which keeps fresh water consumption to a minimum.

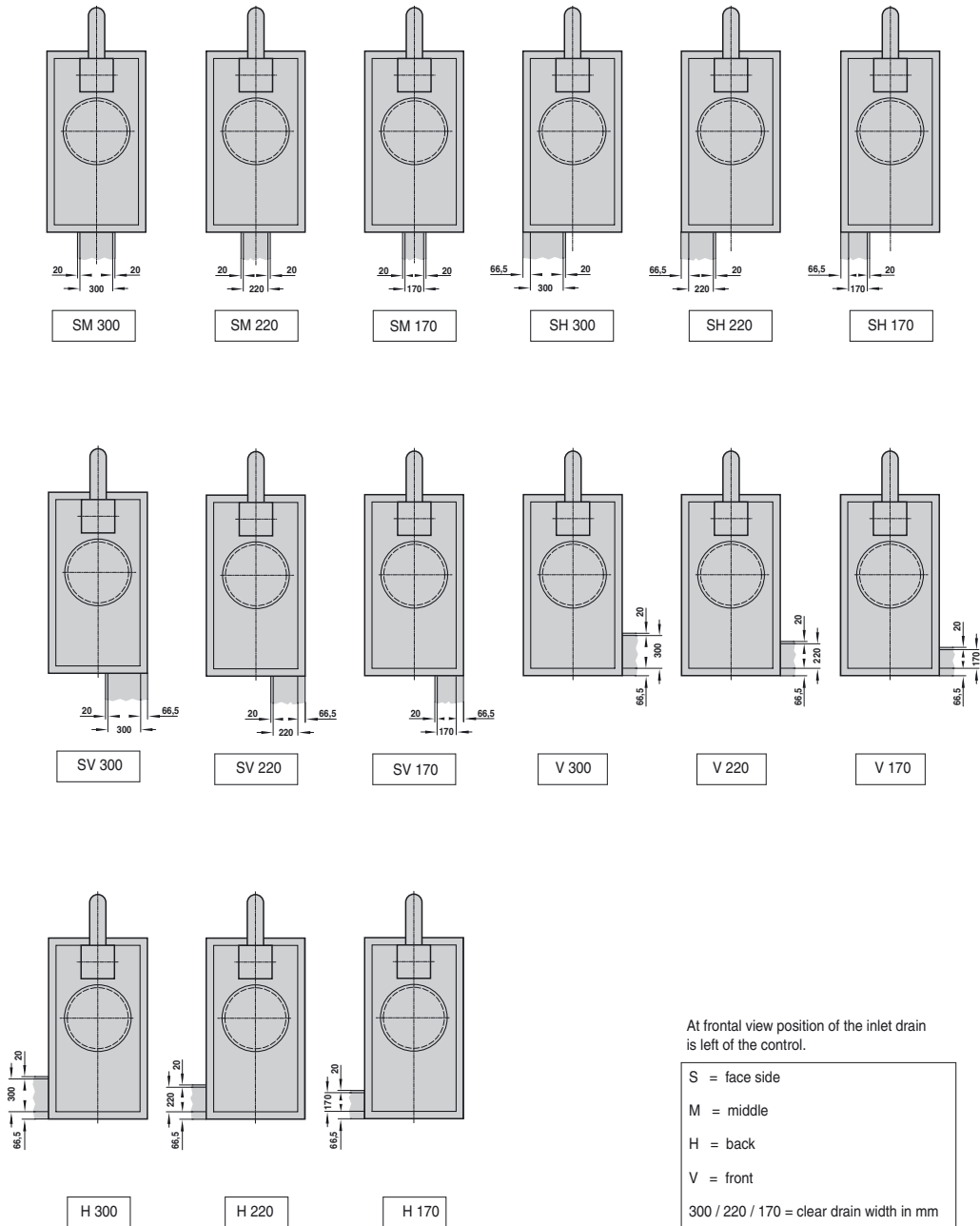
A spray system cleans the strainer cylinder periodically with fresh water which regenerates the circulation water.

Filling and water level control is carried out automatically and overflow water is led into the sewage system in accordance with local water regulations.



# 6 MODELS

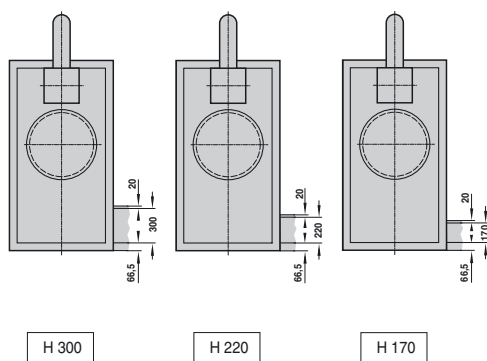
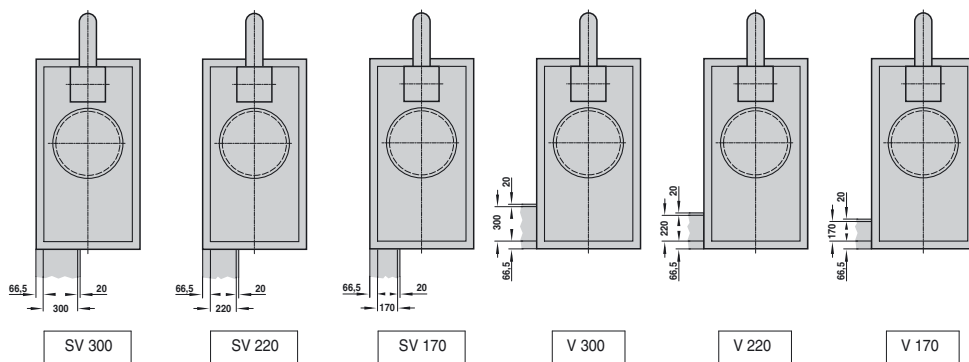
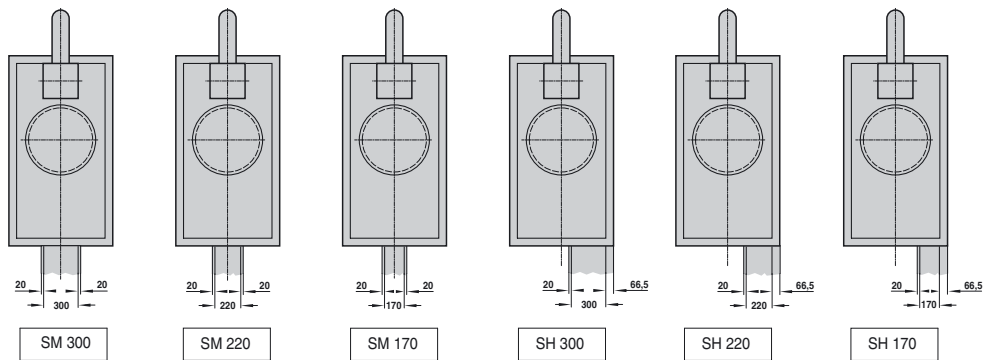
- for external drain connection



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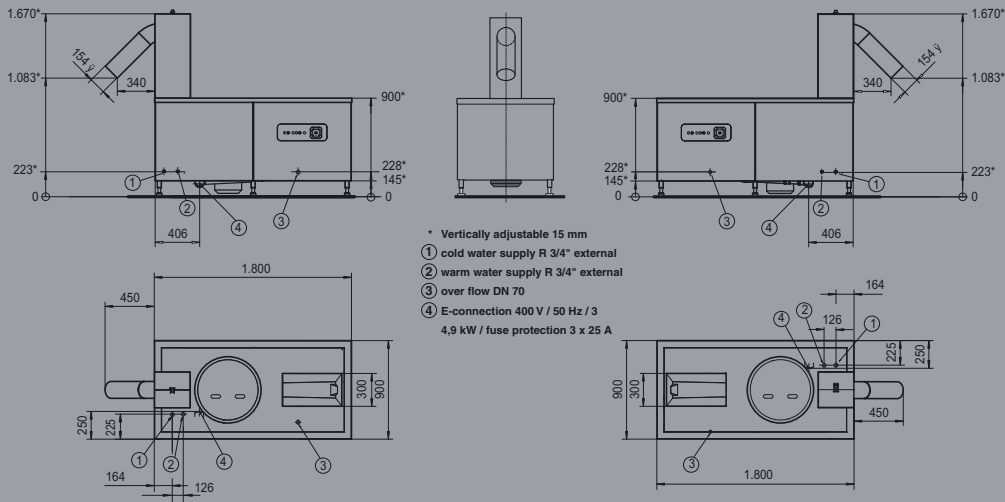
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At frontal view position of inlet drain  
is right of the control

S = face side  
M = middle  
H = back  
V = front  
300 / 220 / 170 = clear drainage width in mm



## 7 TECHNICAL DATA

### MODEL Ecolo 355

<b>Throughput rate</b>	mixed leftovers	450 kg/h
<b>Motor output</b>	breaker	4.6 kW
	Water press	1.5 kW
	Circulation pump	0.7 kW
<b>Total connected load</b>		7.1 kW
<b>E-connection</b>		400V/50/Hz/3Ph
<b>Protection by fuses</b>		3 x 25 A
<b>Tank volume</b>		app 50 l
<b>Water consumption</b>		app 90l/h
<b>Material blades</b>		stainless steel (1.4034)