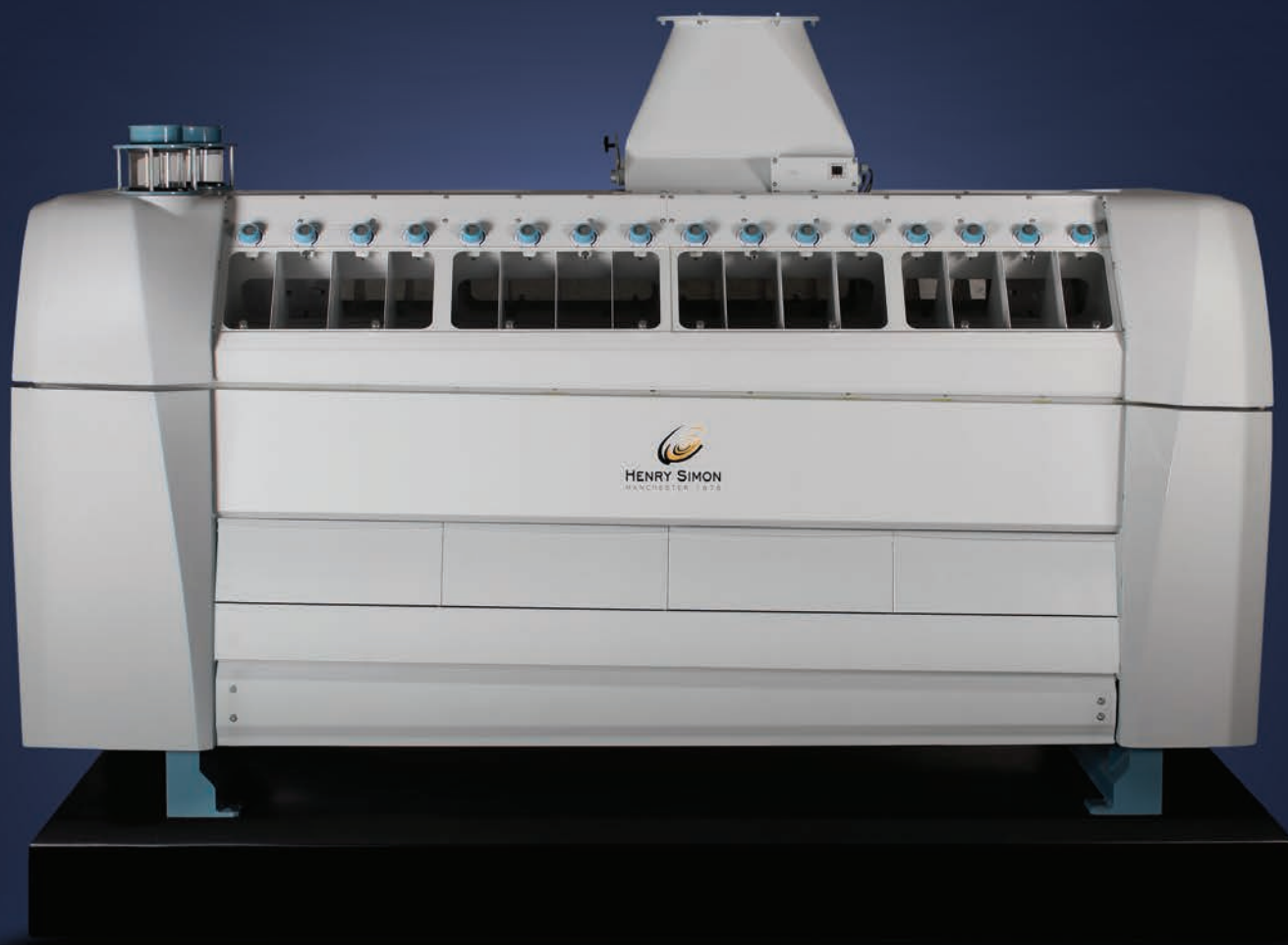


# PURIFIER HSPU



**HENRY SIMON**  
MANCHESTER 1878

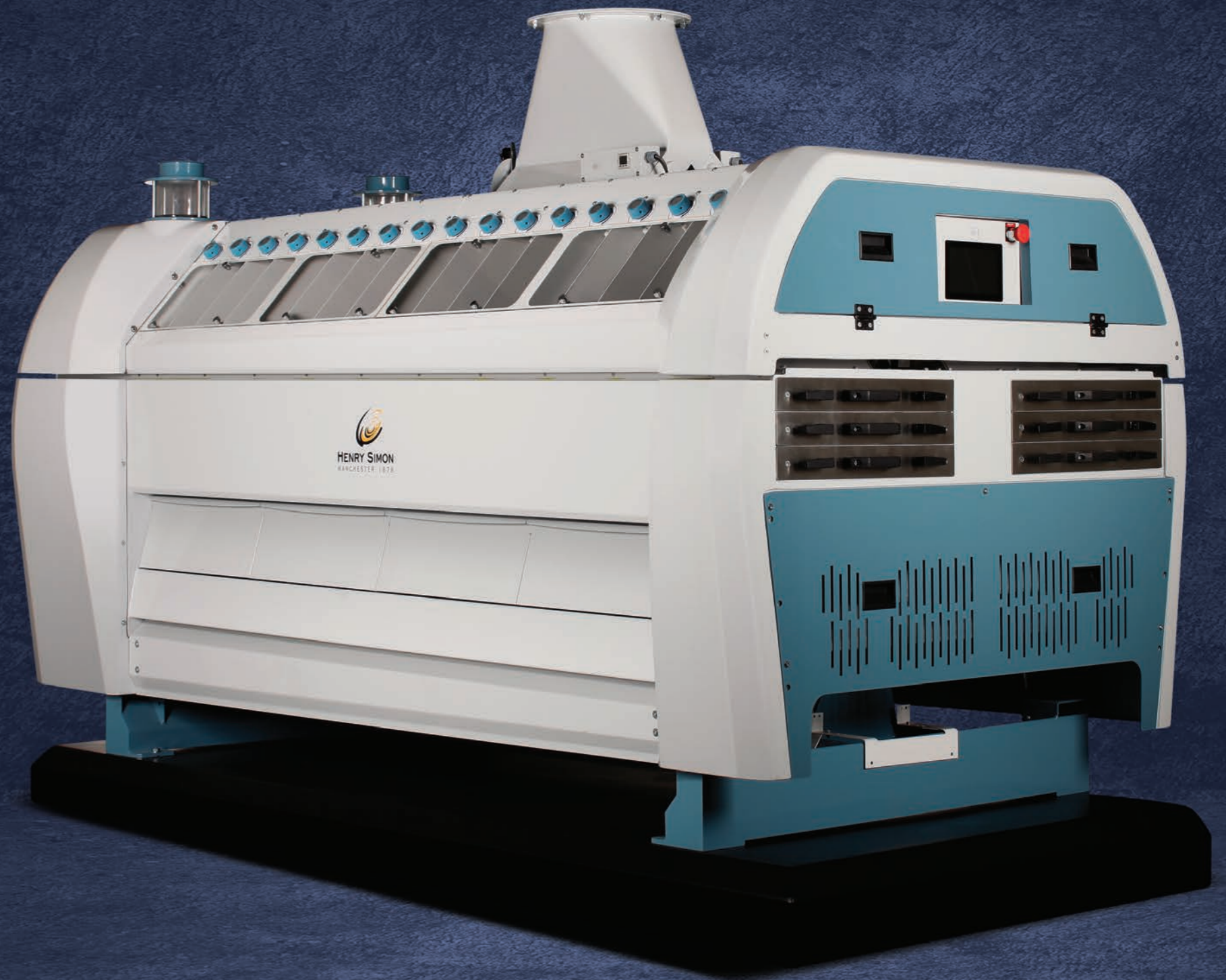
## Having the same spirit for innovation since 1878...

— The new HSPU Purifier combines the best of Henry Simon experience in grain milling technology for over 140 years.

The purifier is used for the bran removal in the processing of grains and cereals such as wheat, maize (corn), rye, spelt, barley and sorghum.

The strong architecture of the purifier combined with energy-efficient vibro motors provides a reliable, efficient, and trouble-free operation.

Moreover, the machine is equipped with Advanced Sensor Technology™ to ensure high efficiency in the bran removal process.



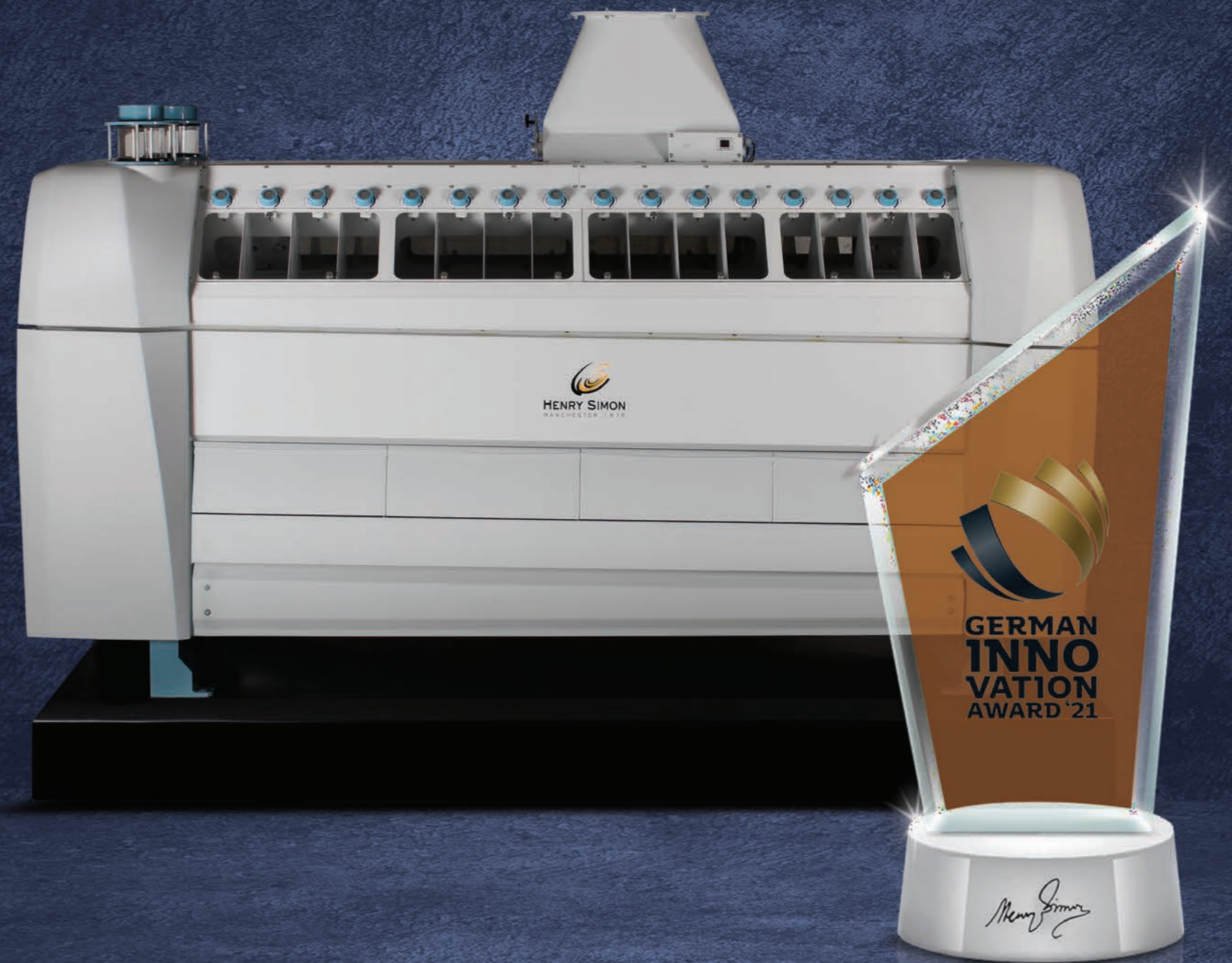
# Award Winning Design and Technology

Being engineered and developed in partnership with Italdesign, the new exterior design of HSPU purifier was recognized and crowned by Good Design Awards in 2020.

As well as the exterior design, HSPU purifier has also been deemed worthy of an award by German Innovation Awards in 2021 with its innovative technological solutions.



Designed by

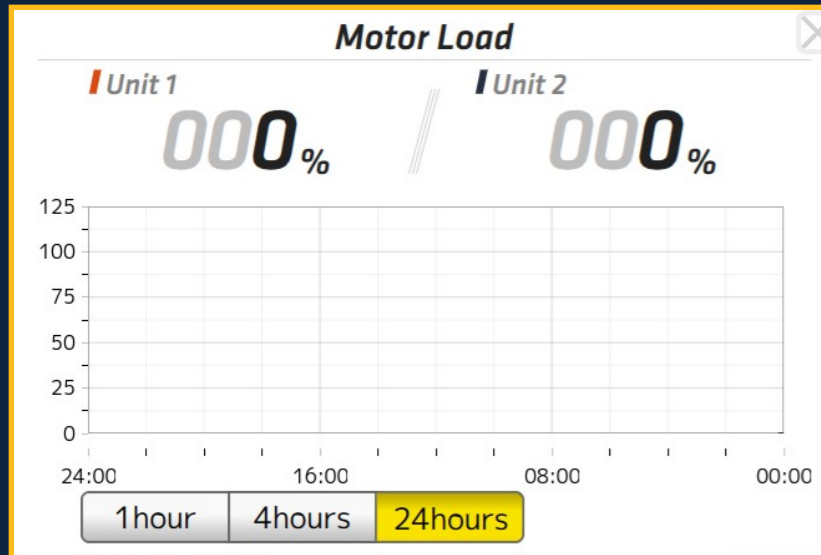


## TECHNOLOGY

Advanced Sensor Technology™ is designed for real-time tracking of machine's operating status and environmental processing conditions; to ensure higher reliability, operational safety, and consistent quality in the milling process.

HSPU Purifier is equipped with 4 different sensors placed at air suction and main drive mechanism to ensure high performance in the bran removal.

Let's meet with Henry Simon's sensor technology...



**AMBIENT SENSOR**  
**DIGITAL MANOMETER SENSOR**  
**MOTOR LOAD SENSOR**  
**HUMAN DETECTION SENSOR**

**ADVANCED  
SENSOR  
TECHNOLOGY**

## TECHNOLOGY

### Ambient Sensor

The sensor pack is designed to monitor environmental processing conditions including the ambient temperature, humidity, and atmospheric pressure; which may directly affect the product and processing quality.

Moreover, 9 axis motion sensor (in the ambient sensor pack) is used to provide the rotational diameter and speed information of the purifier to ensure proper and safe operation.

### Motor Load Sensor

The sensor monitors the current load of vibration motors for protection against any possible damage.



Humidity



Temperature



Atmospheric Pressure

## ADVANCED SENSOR TECHNOLOGY

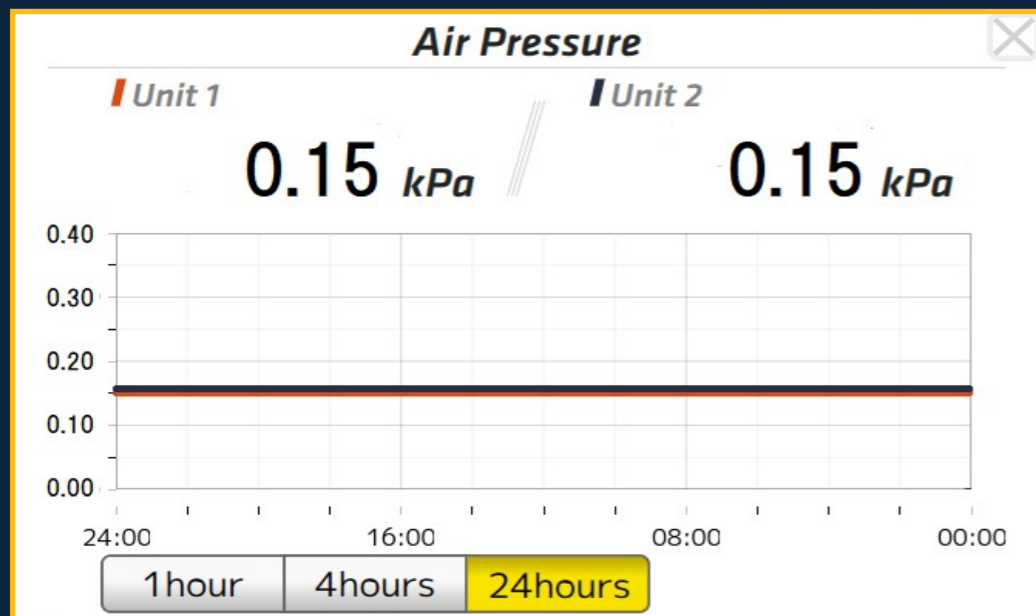


## TECHNOLOGY

### Digital Manometer

The digital manometer sensor monitors the aspiration air pressure, detects and warns about any fluctuation in air pressure to ensure proper air flow inside the machine.

This helps sustaining an efficient separation process at a big extent.



ADVANCED  
SENSOR  
TECHNOLOGY

## OPERATIONAL TRANSPARENCY

As being the first application example, the new HSPU Purifier is equipped with a touchscreen control panel for monitoring the operating data (air pressure, motor load, oscillation diameter and speed etc), as well as other sensor related information.

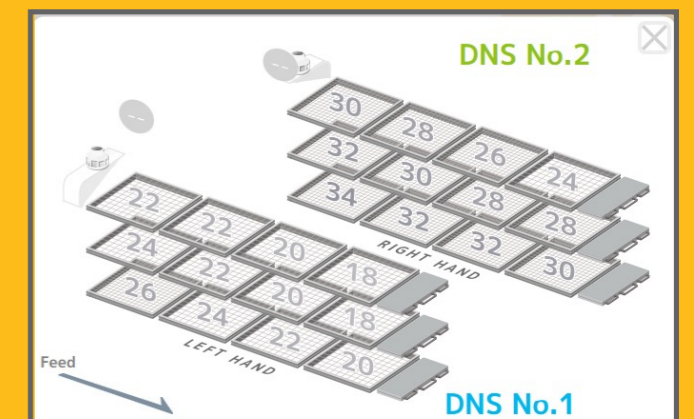
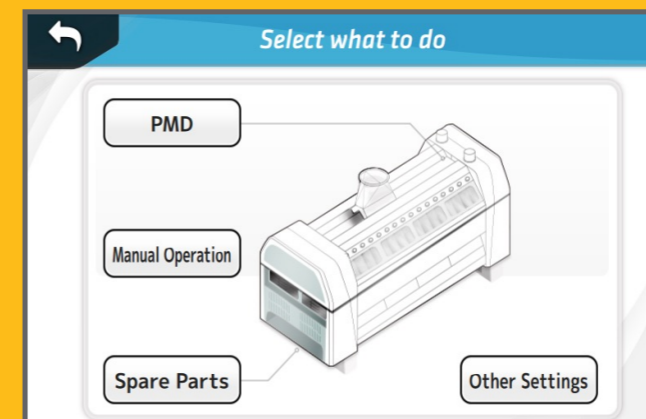
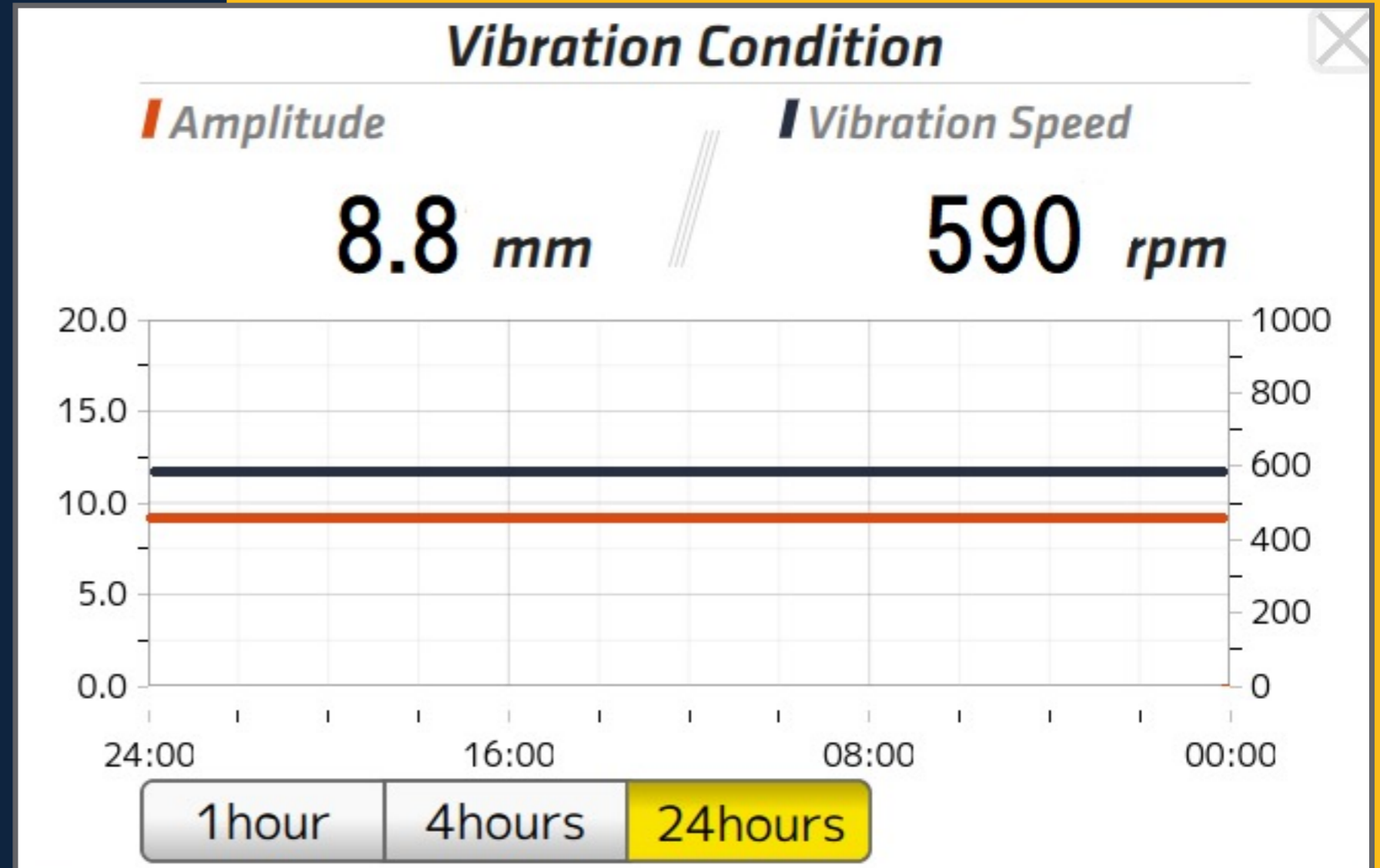
The touchscreen panel is also equipped with Human Detection Sensor, which automatically switches on the control panel and LED lights of the machine by detecting the operator's physical presence. The sensor aims at both energy saving and extending the usage life of the panel.

## Maintenance Software

The special maintenance software of HSPU allows monitoring the status of consumable parts (rubber springs, LED light, vibro motors, etc.), and alarms for advance notification about the replacement time.

Thanks to the Sieve Administration System, the configuration of built-in sieves can be displayed to prevent any mistakes during the sieve replacement operation.

The software also allows visualization of the maintenance history, error log etc. information.



**Sieve Administration System**

# STANDARDS & OPTIONS

HSPU Purifier comes with below variants and options including:

### Variants:

Single and Double Deck Version  
Sensor Packs (see the chart)

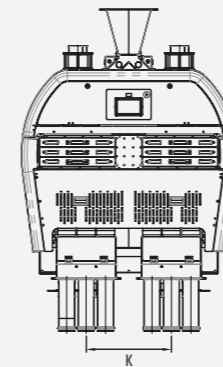
### Options:

Stainless Steel Product Contact Surfaces

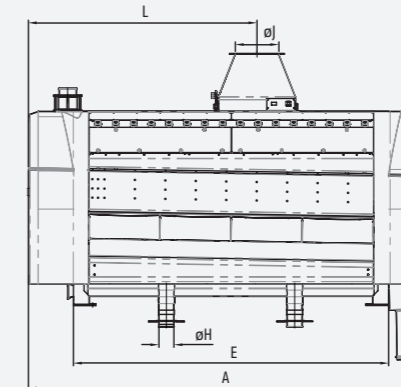
SENSOR PACKS	HSPU	HSPU+
Human Detection Sensor		●
Digital Manometer Sensor		●
Motor Load Sensor		●
Stock Level Sensor		●
Touchscreen Control Panel	●	●
Maintenance Software	●	●

# SPECIFICATIONS

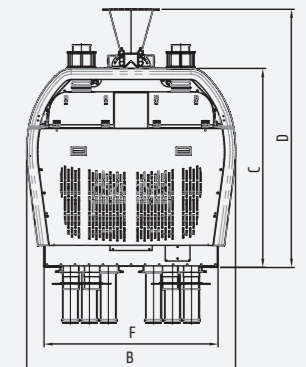
↓ Side View (LH)



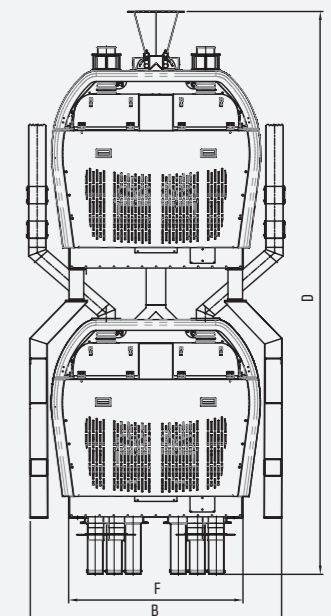
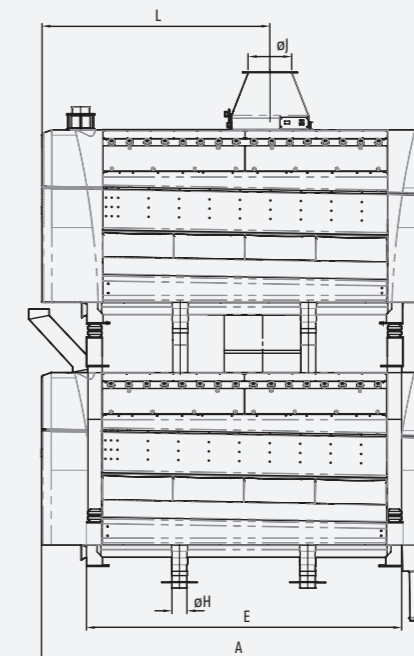
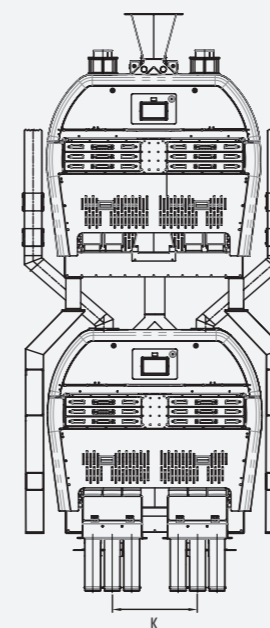
↓ Front View



↓ Side View (RH)



Single Deck Purifier



Double Deck Purifier

MODEL	DIMENSIONS mm.									TECHNICAL FEATURES					
	A	B	C	D	E	ØH	ØJ	K	L	Motor Power (kW)	Air Volume (m <sup>3</sup> /min)	Net Sieve width (mm)	Weight (kg)		Gross Volume (m <sup>3</sup> )
													Net	Gross	
HSPU 46/200	2715	1200	1355	1820	2220	100	300	580	1575	2x0,45	50	500	1000	1334	8.7
HSPU 46/200C		1485	2925	3390			420			4x0,40	100		2500	3010	

\*Henry Simon reserves the right to change, delete, or otherwise modify the information which is represented without any prior notice.





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