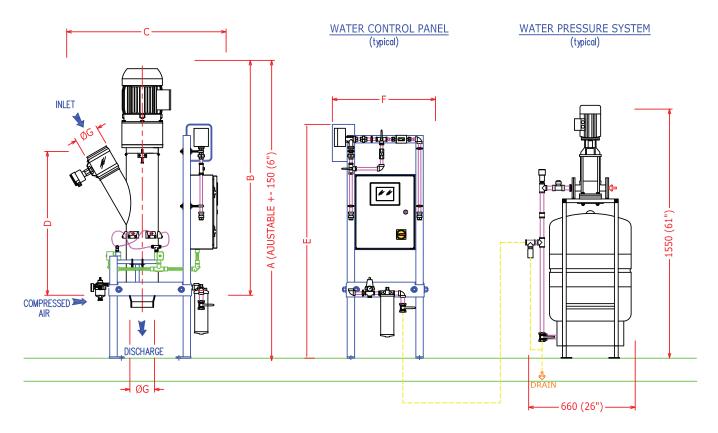
Technical and Dimensional Data.



(PUMP/TANK TO BE INSTALLED AS CLOSE AS POSSIBLE TO HYDROMAX) < 7 mt. VERTICAL < 25 mt. HORIZONTAL

MODEL	T/H	WATER CONSUMPT.	WEIGHT	POWER	
HMX/150	6	34gph. (130lt/h)	268 Kg.	g. 3.3-5.5 kw	
HMX/200	12	40gph. (150lt/h)	450 Kg.	7.5-11.0 kw	
HMX/300	22	90gph. (330lt/h)	680 Kg.	18.5-22.0 kw	

MODEL	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'	DIM. 'G'
HMX/150	<u>1626</u>	<u>1245</u>	<u>889</u>	<u>813</u>	<u>1270</u>	<u>635</u>	<u>120</u>
	64"	49"	35"	32"	50"	25"	4.5"
HMX/200	<u>1880</u>	<u>1448</u>	<u>990</u>	<u>965</u>	<u>1270</u>	<u>635</u>	<u>150</u>
	74"	57"	39"	38"	50"	25"	6"
HMX/300	<u>2286</u>	<u> 1778 </u>	<u>1143</u>	<u>1143</u>	<u>1346</u>	<u>762</u>	<u>200</u>
	90"	70"	45"	45"	53"	30"	8"

Technical and Dimensional data are indicative only. They may be changed at any time, without notice, for market comliance, technical and manufacturing reasons.

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HMX HYDROMAX







Why control moisture?



CETEC's HMX Hydromax hydrator is designed to add moisture to finished granulates and powders.

Many processes use intensive treatments, including grinding, heating, cooling, or a combination of these, all of which tend to dry a finished product. By the simple introduction of this system, process yield can be increased, and a consistent final product quality produced.

Moisture control is one of the most critical factors affecting the profitability and performance of a process. To provide customers with a product of

CETEC HMX HYDROMAX

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consistent moisture, traditionally means a compromise: the moisture content of a the raw material must be adjusted after considering not only the efficiency of the operation but also the moisture content of the finished product.

A conflict may arise here, as the moisture that gives the best process results does not necessarily provide the desired finished product moisture.

Many processors know only too well the challenges of obtaining and maintaining optimum performance. Have you ever sold a product at 8% moisture when your customer would only accept (or want) a consistent 10%?

This hydration system may produce a small percentile of agglomerates that must be sifted out after hydration and ground. CETEC can provide a complete system to provide consistent hydration of products. This includes NIR or microwave based online control of the moisture, post hydration sifting and re-grinding of any agglomerates.

Key components.

Vertical Mixer.

The vertical stainless steel mixer is essentially composed of three main parts:

- First, the cylindrical hydration chamber with an inclined inlet and Doppler radar product sensor.
- · Second, a rotating shaft fitted with a series of aerodynamically shaped paddles, driven by a variable speed, direct drive motor.
- Finally a ring of six or eight specially designed jets for precise water atomization.





Benefits

Primary:

- Increased process yield.
- Increased production
- Consistent product moisture.
- · Lower process loss.
- Improved sanitation.
- · More stable processing conditions.

On-Line Quality Control.

The Hydromax is available with our optional NSX or MSX in line moisture analyzers. The Systems come as free standing stainless steel motorized units, to be mounted downstream of the Hydromax, to provide feed-back moisture control in the form of a 4-20mA signal. The applicable unit is best located after a rebolt sifter so as to provide the Hydromax with a true finished flour moisture reading. The NSX works on NIR technology for finer organic products, while the MSX works on Microwave technology for larger whole products. Incorporating the NSX or MSX systems provides for true closed loop moisture control.



- Reduced grinding power consumption (kw/ton).



Water Panel.

The water panel is an essential component of the system that provides filtered, high pressure water to the Hydromax. The water entering the panel is filtered through a 1 micron filter, and passes through a pressure regulator. The water flow rate is controlled by a high resolution electrically actuated valve and monitored by a digital flowmeter chosen for its accuracy and linearity. A manual by-pass system is provided for manual flow setting override.

Pump and Pressure Vessel.

A 1.5 hp (1.1 kW) pump generates the required pressure to feed the six atomizing nozzles, and stores the pressure in a Watts regulator vessel. A digital pressure switch starts and stops the pump to maintain desired pressure levels.

Supplementary:

- Improved discharge of the process feed bins.
- Extended periods between sifter cleaning.
- Reduced protein loss (some organic processes).
- Reduced seasonal process changes.