

## Isomerization System

HM-IS-Q isomerization system is the system that produces fructose 42 from qualified glucose solution under the catalysis of isomerase.

HM-IS-Q isomerization system adopts PLC control, automatic operation, can continuously convert glucose liquid into F42 fructose syrup, namely mixed sugar liquid with fructose (42% content) and glucose (58% content).

During the operation of isomerization system, the temp., PH, flow rate and system press. of glucose have great influence on the formation of fructose. In order to obtain qualified F42 fructose, we carried out automatic control of temp., PH and flow of the whole system, and real-time monitoring of the computer screen. We only need to set the corresponding temp., flow and PH on the control computer to obtain the corresponding content of fructose solution.

### Features:

- (1) Easy to install and save equipment compared with traditional equipment;
- (2) High operation accuracy, high speed and high efficiency. Use control instrument for operation control to ensure accurate and high quality products.
- (3) PLC operation is convenient and production is stable.

HongVadar relies on the professional design, the strict production management, the fine processing procedure, provides the high efficiency and energy saving equipment system for the customer. Manufacturing factory has passed the international ISO9001 quality system certification, and with the design and manufacturing capacity of pressure vessels. Customers can choose international ISO, EU CE and other standards for equipment design and production according to their needs.

### Technical parameter

Model	Material	Feed DE value	Feed DS, %	Feed capacity, t/h	Product DS, %	Output capacity, tpy (F42)
HM-IS-Q1.0	Qualified glucose	95-98	45-50	1.8-2.0	71	10000
HM-IS-Q2.0	Qualified glucose	95-98	45-50	3.5-4.0	71	20000
HM-IS-Q3.0	Qualified glucose	95-98	45-50	5.3-6.0	71	30000
HM-IS-Q6.0	Qualified glucose	95-98	45-50	10.7-12.0	71	60000
HM-IS-Q10.0	Qualified glucose	95-98	45-50	18.0-20.0	71	100000
HM-IS-Q15.0	Qualified glucose	95-98	45-50	26.8-30.0	71	150000
HM-IS-Q20.0	Qualified glucose	95-98	45-50	35.8-40.0	71	200000