



IMXD

Alfa Laval Iso-Mix External Drive

Application

The IMXD is an externally-driven version of the Rotary Jet Mixer that is particularly suited for mixing applications in fluids containing particulates, such as dry-hopping of beer in medium to large tanks. The IMXD system can also be used to optimize fermentation and cooling processes by maintaining yeast in suspension during fermentation improving the contact between yeast and fermentable sugars while preventing yeast from settling in the cone.

Working principles

Rotation is driven by an external motor connected to an internal shaft. As such, there is no contact between the circulating fluid and the gear motor, allowing the system to handle high concentrations of solid matter, such as hop particles, in the circulating fluid.

The IMXD mixer head is typically located low in the tank, allowing the system to operate when filling and emptying the tank. For the dry-hopping process, this mixing configuration maintain the hops in homogeneous suspension during transfer from the tank to downstream centrifugation, providing a constant load to the centrifuge, that optimizes separation efficiency and performance.



TECHNICAL DATA

Lubrication of bearings Process liquid
 Product contact surface finish Ra 0.8 µm (31.5 µin)
 Max. dosing rate 1000 g/hl

Pressure

Working pressure 1-10 bar (14.5-145.0 psi)
 Recommended pressure 1-5 bar (14.5-72.5 psi)

Motor and gear

Motor norm: IE3
 Motor protection class: IP55
 Power: 0.25 kw (0.33 Hp)
 Lubricant: Food grade
 Voltage: 3x230V-400V, 50Hz

Frequency converter

Type: Wall mount kit
 Converter protection class: IP66
 Frequency converter input: 3AC 380-480V,-
 20%/+10%,47-63Hz

PHYSICAL DATA

Materials (product contact) AISI 316, SAF 2205, PFA,
 PEEK, PTFE, EPDM, Carbon,
 SiC.

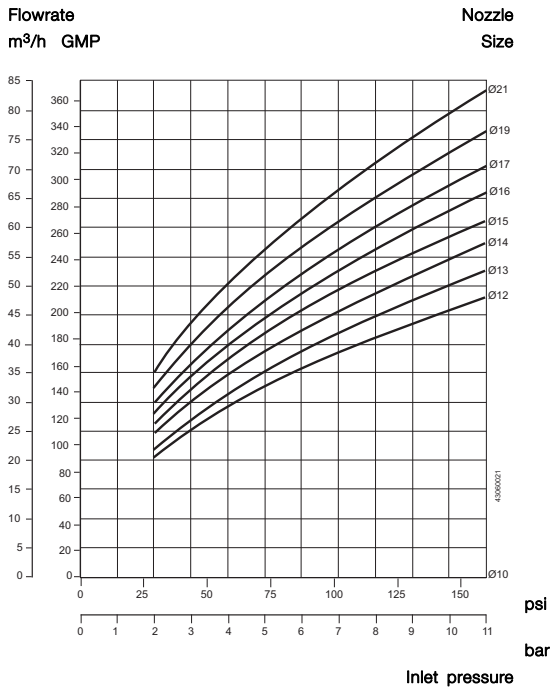
Temperature

Max. product temperature: 95°C (205°F)
 Environment temperature: -5 to 40°C (23 to 104°F)
 Weight 55 to 66 kg (121 to 146 lb)

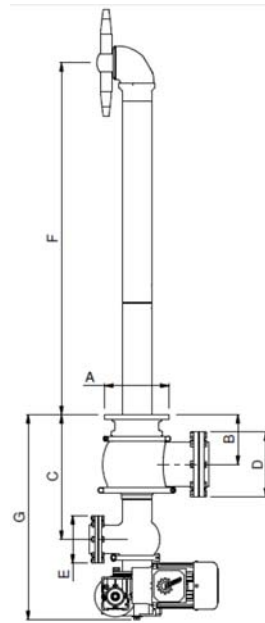
Sizing, installation and supply system

Contact Alfa Laval Brewery for sizing and ordering the IMXD. email:
 brewerysales.copenhagen@alfalaval.com

Performance diagram



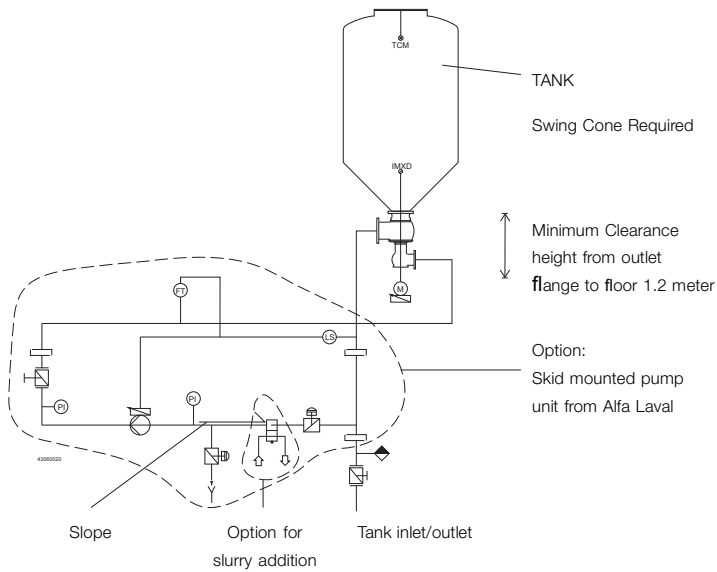
Dimension



A	San. Flange NW125
B	145.5
C	365
D	San. Flange NW125
E	San. Flange NW80
F	1030 – 2830
G	597

Indicative P&ID

General arrangement set-up for the IMXD, including an optional skid mounted pump system.



Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval
 Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.