

# Sanitary Extruder Hood

## Hygienic

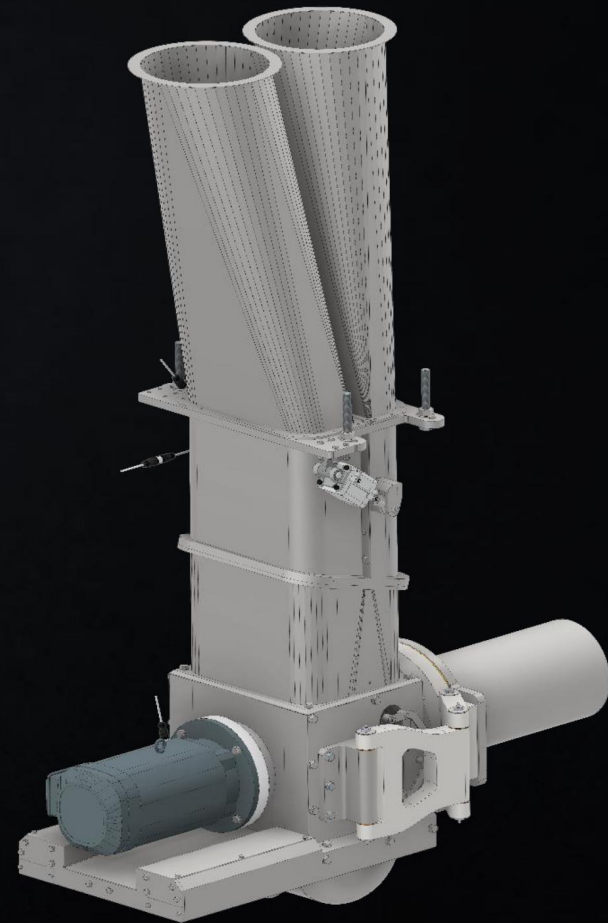
- Stainless Steel construction
- No seals or gaskets
- Compatible with high-temperature burn-out

## Easy to Use

- Toolless die and cutter access
- Easy clean
- Integrated sample port

## High Compatibility

- Fits a range of extruders
- Structurally stable
- Compatible with alternative cutters



The Frazer-Nash Sanitary Extruder Hood (SEH) is used in pet food production as part of a clean air conveying system. Conditioned and filtered external air is used to prevent the risk of contamination from air within the extruder room or other parts of the factory.

The SEH features stainless steel on all internal parts to ensure the highest standards of hygiene, with all parts manufactured in conformance with best practise.

The all-metal construction has no seals or gaskets so there is no contamination risk to the food product or deterioration in equipment performance as seals wear. Machined metal-metal surfaces are used to seal the equipment.

The system is compatible with high-temperatures allowing thermal sanitation during cleaning. The stainless-steel construction also allows chemical wash-down as an alternative. With a simple easy-access design and smooth airways, manual cleaning of the product path is straightforward.

Toolless access makes product changeover is quick and easy with rapid access to the extruder outlet, die plates, and cutter.

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A choice of sample port options are available to enable capture of product during start-up and production for quality control.

The flexible bayonet interface design allows for connection directly to a range of extruders or to flow restriction valves from Wenger, Extru-Tech or other extruder manufacturer. The system can be floor, overhead-rail, or extruder mounted with a range of opening configurations. Site-specific mounting customisations are available.

The fully machined core is precision engineered to withstand temperature-cycling and heavy use, meaning that it will not deform or wear in a way that causes production to degrade with time.

The equipment is compatible with a range of standard cutter hubs and die plates. It can be customised to suit existing cutter hubs and die plates which makes transition to new equipment easier.

## SEH Specification

Extruder interface maximum design pressure		15 MPa (2176 psi / 150 bar)
Extruder interface recommended working temperature		95°C (203°F)
Maximum “burn-out” duct temperature		125°C (257°F)
Product throughput*		10 – 20 tonnes/hr (11 – 22 tons/hr) <i>subject to air flow rate and ductwork size</i>
Air flow rate*	10 tonnes/hr (11 tons/hr)	1.4 m <sup>3</sup> /s (49.4 ft <sup>3</sup> /s) <i>ø250mm (ø10”) product carrying ductwork</i>
	20 tonnes/hr (22 tons/hr)	2.8 m <sup>3</sup> /s (98.9 ft <sup>3</sup> /s) <i>ø350 mm (ø14”) product carrying ductwork</i>
Air pressure drop through SEH*	1.4 m <sup>3</sup> /s (49.4 ft <sup>3</sup> /s)	2.2 kPa (0.32 psi / 22 mBar)
	2.8 m <sup>3</sup> /s (98.9 ft <sup>3</sup> /s)	4.4 kPa (0.64 psi / 44 mBar)
Air/product ductwork diameter		250, 300 or 350 mm (10”, 12” or 14”) <i>air inlet ductwork must be the same size or larger in diameter than outlet</i>
Maximum die plate diameter†		300 mm (11.8”)
Cutter drive motor		5.5 kW, voltage and base frequency to suit factory’s regional requirements
Cutter speed		300 – 1500 rpm
Maximum cutter blade diameter		280 mm (11”)

\* Dependent upon product parameters

† Larger die sizes may be available upon request

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