

QC³® 27mm

Co-rotating Twin-Screw Extruder

Quick-change, Quick-clean, Quality Control -
Ideal lab and high-value/low volume production



Screws

Diameter	27mm
Rotation	Co-Rotating
Length	28-52 L/D
Screw Center Distance (mm)	23
Screw Do/Di Ratio	1.47
Flight Depth (mm)	4.3
Free Area, 2-Flight (cm ²)	3.8
Shafts	12 Tooth Involute Spline

Drive System

Std. Gearbox Ratios	1.57 / 2.79
Screw Speeds	1200 rpm
Motor @ 1750 rpm	40 hp
Motor Equivalent in Watts	30 kW
Voltage Options	380 / 415 / 460 / 575 Volt
Standard Motor Controller	AC

Barrels

Form	Square, Flanged
Length	108 mm
Cooling	Internal Liquid Cooling
Open Barrel Heat Zone	1.4 kW Cartridge
Closed Barrel Heat Zone	1.4 kW Cartridge

Controls

Controller	Ethernet PLC with Color Computer Interface
Heat/Cool Zones	Up to 16 Standard (additional upon request)

Size & Utilities

Installed Cooling Capacity (gearbox and barrel)	5.3 tons (67,100 kJ) [25 kW] @40hp and 1200 rpm
Typical Cooling	1.2 tons (15,190 kJ)
Est. Power Requirements*	72A Power, Minimum Breaker 100 Amps
Centerline Height	1080 mm [42.5 in]
Length, 48D	3054 mm [120 in]
Width	810 mm [32 in]
Height (top of motor)	1480 mm [58 in]
Weight (approx.)	1180 kg [2600 lb]

* - Standard Machine Configuration: 1 Feed Barrel, 9 Solid Barrels (6 Aluminum, 3 Bronze/Cast Iron), 1 Vent Barrel, Gear Box Lube 40mm and Up, Barrel Cooling Pump,

