

# ENTEK YOUR EXTRUSION SOLUTION

## HR<sup>3</sup>™ 53mm

### Co-rotating Twin-Screw Extruder

High Rate, High Reliability, High Return -  
Ideal for medium lot-size custom compounding



#### Screws

Diameter	53mm
Rotation	Co-Rotating
Length	28-52 L/D
Screw Center Distance (mm)	43
Screw Do/Di Ratio	1.62
Flight Depth (mm)	10.0
Free Area, 2-Flight (cm <sup>2</sup> )	17.2
Shafts	24 Tooth Involute Spline

#### Drive System

Std. Gearbox Ratios	1.46 / 2.92
Screw Speeds	1200 rpm
Motor @ 1750 rpm	300 hp
Motor Equivalent in Watts	224 kW
Voltage Options	380 / 415 / 460 / 575 Volt
Standard Motor Controller	AC

#### Barrels

Form	Square, Flanged	
Length	210 mm	
Cooling	Internal Liquid Cooling	
Open Barrel Heat Zone	3.4 kW Aluminum	4.4 kW Bronze
Closed Barrel Heat Zone	4.0 kW Aluminum	6.0 kW Bronze

#### 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)	28 tons (354,420 kj) [81 kW] @ 150 hp and 600 rpm
Typical Cooling	6.3 tons (79,750 kj)
Est. Power Requirements*	287A Power, Minimum Breaker 300 Amps
Centerline Height	1090 mm [43 in]
Length, 48D	5410 mm [213 in]
Width	1030 mm [40.5 in]
Height (top of motor)	1470 mm [58 in]
Weight (approx.)	5440 kg [12000 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,

