

MEDIUM SPIRAL CHILLER SPECIFICATIONS

**PRECISE CHILLING. MAXIMUM FLEXIBILITY.
COMPACT FOOTPRINT.**

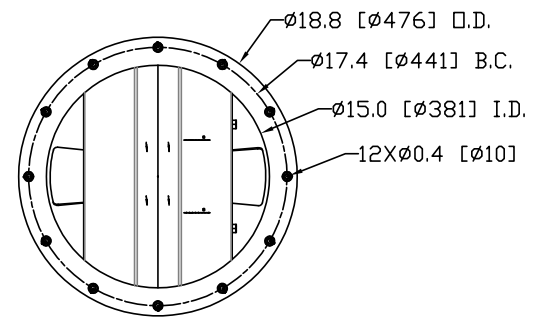
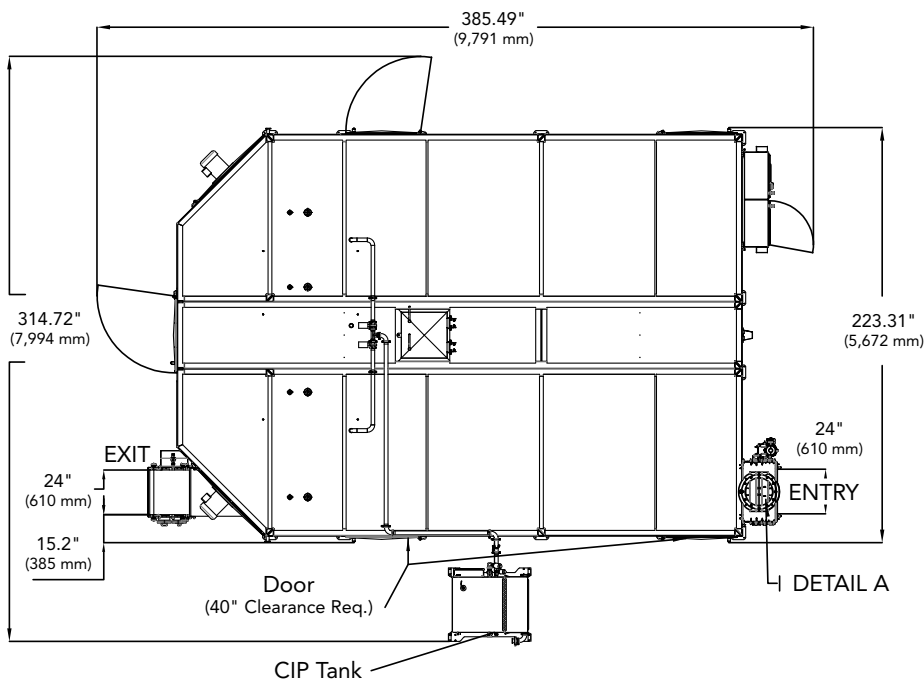
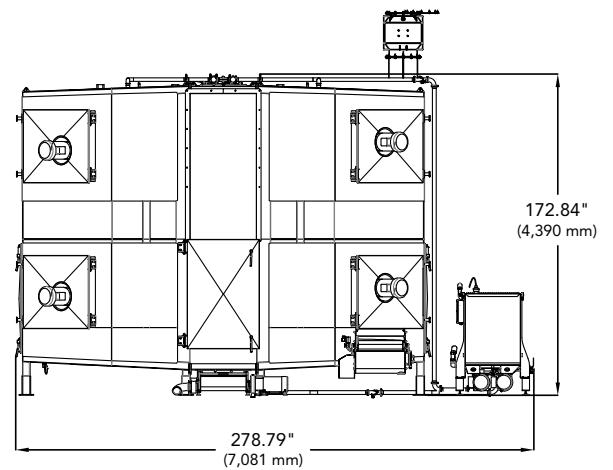
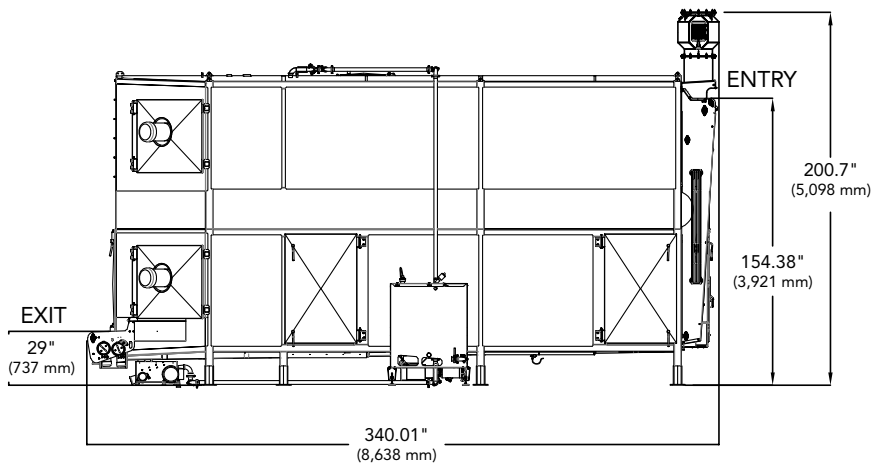
Marlen's Medium Spiral Chillers are ideal for processors looking for a scalable solution that is fully welded, mechanical, and compact. Use as a standalone solution or build multiple lines with this industrial production machine. Our Medium Spiral Chillers deliver ultra-hygienic design features while maximizing production capacity in a compact design. This chiller's horizontal airflow offers efficient freezing or chilling without the ongoing operational expense of cryogenics such as nitrogen gas. The chiller's control system automatically adjusts to recipe setpoints including a signal for automatic defrost. Marlen Medium Spiral Chillers provide a reliable solution for targeting consistent product core temperatures, with optimal moisture retention, so you can yield those juicy, crispy, tender, and safely frozen or chilled-to-perfection results. Better Process...Better Food®.

FEATURES

- MECHANICAL FREEZE OR CHILL (FREON, GLYCOL, OR AMMONIA REFRIGERATION)
- VARIABLE SPEED CIRCULATION FANS WITH EXTERNAL MOTOR MOUNT DESIGN
- ON THE FLY AUTOMATIC DEFROST
- REACHES TEMPERATURES DOWN TO -40° F (-40° C)
- MACHINE-MOUNTED PREWIRED CONTROLS
- CIP WITH BUILT-IN BELT WASH SYSTEM
- SANITARY CABLE ROUTING
- HOT STEAM STERILIZATION
- MULTIPLE RECIPE SETTINGS
- ETHERNET CONNECTION FOR REMOTE MONITORING
- RECIPE DRIVEN PLC
- FULLY WELDED; STAINLESS STEEL 304 & 316 MATERIALS
- FREE-STANDING ON SANITARY ADJUSTABLE FEET
- PRE-ASSEMBLED AND FACTORY-TESTED PRIOR TO SHIPMENT

FEATURES	TECHNICAL SPECIFICATIONS
Footprint	28.62' (8.64 m) L x 26.25' (7.99 m) W x 16.75' (5.09 m) H
Belt Dimensions	24" (600 mm) wide; up to 984' (300 m) overall & 739' (225 m) collapsed
Belt Heights	Infeed 12.78' (5.09 m); Exit 29" (737 mm)
Belt Tiers	Up to 19 tiers available
Capacity	3,000 – 5,000 lbs (1,350 – 2,250 kg) per hour
Residence Time	30-120 minutes (average)
Refrigeration	4 evaporators, tonnage TBD up to 90 TR total capacity, coil controlled on signal from chiller PLC
Electrical	USA: 480 VAC, 3-PH, 60 Hz, 135 AMP max EUR: 380-415 VAC, 3-PH, 50 Hz, 165 AMP
Drains	Through CIP return pipework Main: 4" (100 mm) Sanitary CIP: 1" NPT (25 mm) Sanitary CIP Drain: 3" (75 mm)
Steam	Inlet: 1-½" NPT (38 mm) for steam sterilization – post CIP 1,500 lbs/hour @ 80 PSI (680 kg/hour @ 5.5 bar)
Extraction	3500 CFM (99 m ³ /min) optional fan 15" (381 mm); for steam sterilization – post CIP
Water – Belt Wash	Inlet: ½" NPT (15 mm); up to 60 GPH (227 liters/hour) for sanitation
Water – CIP	Inlet: 1" NPT (25 mm) for sanitation – min. 30 PSI (up to 325 gal per tank fill)
Compressed Air	Connection Size: ¼" NPT (@ 90 PSI, 6 bar)

TECHNICAL SPECIFICATIONS



DETAIL A
SCALE 1:8



4780 NW 41ST ST, STE. 100 • RIVERSIDE, MO 64150

TEL 913.888.3333 | TOLL FREE 800.862.7536 | FAX 913.888.6440 | EMAIL: SALES@MARLEN.COM | WWW.MARLEN.COM



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