

Ice Bear™ 20

Technical Specifications



Modes of Operation

Air conditioning
Ice cooling
Thermal Energy Storage (TES)

Cooling and TES Characteristics

AC and ice cooling capacity	5 Tons
Charge time @ 75° F	up to 7.5 hours
Storage capacity	up to 20 Ton-hours/up to 28 kWh
Discharge duration	up to 4 hours @ 5 Tons

Peak Power Reduction

On-peak demand reduction	up to 7kW
On-peak electric demand	250 watts
Efficiency	14.56 SEER
Energy shifted off-peak	Up to 28 kWh

Line Set Restrictions

Length (Ice Bear to airside coil)	150 feet
Height (Ice Bear to coil above/max)	35 feet
Height (Ice Bear to coil below/max)	20 feet

Ice Storage

Tank capacity (tap water)	265 gallons
Thermal storage capacity (latent)	240,000 BTU

Refrigerant Management System (RMS) & Compressor

Refrigerant	R-410A
Scroll compressor	4.3 Ton

SmartGrid Controller

Built-in web server & data logging
Historian
One-wire sensor network

Electrical Requirements

Model	MCA	FLA	MOCP
IB20-521: 208/230V, 1 phase, 60 Hz	39.6A	36.0A	50A
IB20-523: 208/230V, 3 phase, 60 Hz	25.1A	24.4A	30A
IB20-525: 200/220V, 3 phase, 50 Hz	25.1A	24.4A	30A
IB20-543: 460V, 3 phase, 60 Hz	13.6A	13.1A	20A
IB20-545: 460V, 3 phase, 50 Hz	13.6A	13.1A	20A

Physical Properties

Size	86" L x 48" W x 46" H
Weight (dry)	990 lb. (approx.)
Weight (filled)	3,500 lb. (approx.)