



FOCUSED ON APPLICATION HVAC



Unit information		
Chiller Model	CA2-260-4210	
Width:	2,250.00 mm	88.58 in
Length:	9,570.00 mm	376.77 in
Height:	2,520.00 mm	99.21 in
Shipping Weight:	8,980.00 Kgs	19,797.51 Lbs
Operating Weight:	9,090.00 Kgs	20,040.02 Lbs
Capacity Control	Stepless Control	
Refrigerant:	R134a	
Refrigerant(Ckt1 / Ckt2):	175.00 Kgs	175.00 Kgs
Starting Control:	Y-Δ	

Performance Information(Cooling Condition)		
Cooling Capacity:	922.00 Kw	260.00 Tons
Entering Water Temp:	12.00 °C	53.60 °F
Leaving Water Temp:	7.00 °C	44.60 °F
Ambient Temperatura (DB):	35.00 °C	95.00 °F
Water Flow (Max):	159.00 m³/hr	700.06 Gpm
Input Power (Electrical):	281.80 Kw	
IPLV/NPLV (W/W - Btu /w):	4.66 EER (W/W)	15.91 EER (Btu/w)
COP (W/W - Btu /w):	3.27 EER (W/W)	11.17 EER (Btu/w)

Compressor Information		
Brand:	Bitzer	
Model:	CSH9553-180Y-40D	
Type Compressor:	Semi-Hermetic Screw	
Maximal Amperaje Control:	254.00 Amperes	
Quantity:	2.00 Piece	
Oil Model (by compressor):	BSE170	1,055.90 Oz
Capacity Regulating Range:	25.0% - 100.0 %	

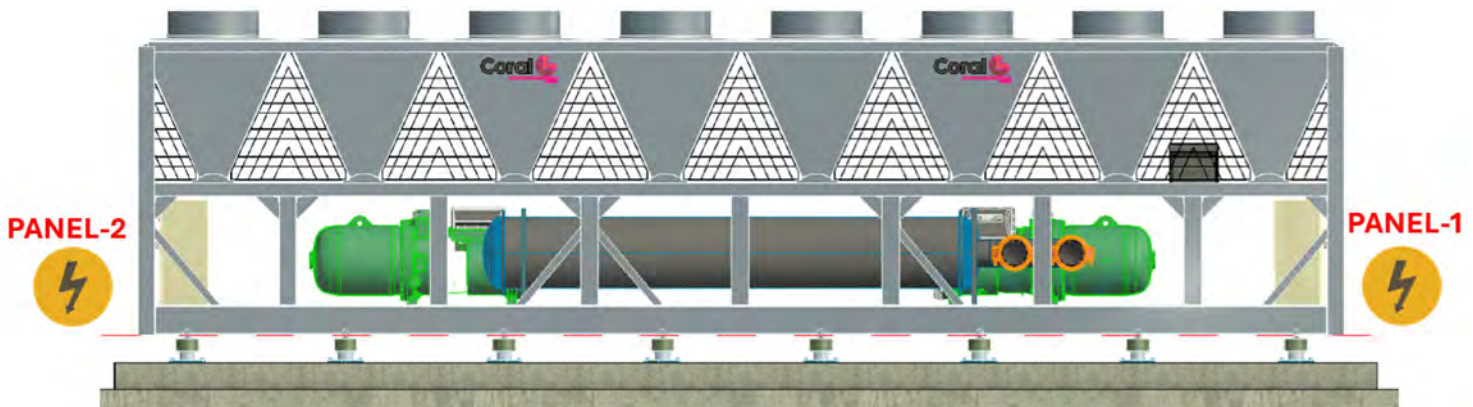
Water Side Heat Exchanger Information		
Fluid Type:	Fresh Water	
Nozzle Type:	Victaulic Couping	
Water Volume:	172.00 Lts	45.44 Galons
Heat Exchanger Type:	Flooded Shell-and-Tube	
Fouling Factor:	0.018 m².K/kW	0.1021 ft².F/Btu
Nozzle Size(DN):	200.00 mm	8.00 in
Water Pressure Drop:	72.00 kPa	24.09 ft CA
Design Pressure of Water Side (Max):	1.00 MPa	145.04 Psi

Air Side Heat Exchanger Information		
Type:	Fine-Tube	
Fan Quantity:	16.00 Units	
Air Flow:	392,000.00 m³/hr	230,722.18 Cfm
Fan Power Input:	2.20 Kw/Unit	35.20 Kw Total

Electrical Conections		
Amperaje	Electrical Circuit 1	Electrical Circuit 2
Maximum operating current (MCA):	296.50 Amp	296.50 Amp
Maximum Overcurrent Protection (MOCP):	400.00 Amp	400.00 Amp

Electrical Information		
Power Supply:	460Volts / 3 Phases / 60 Hertz	
Voltaje Range:	440 Volts	480 Volts
Rating Current (A):	392.00 Amp	
Max. Starting Current (A):	761.00 Amp	
Maximum operating current (A)	593.00 Amp	

Electrical Panel	Electrical Circuit 1	Electrical Circuit 2
Point Conection Electrical:	Panel E-1	Panel E-2



- * Garantía 2 Años en partes y en compresores
- * Resortes anti-vibratorios

- * Refrigerante Ecologico
- * Conexiones de Tuberia ranurada (Victaulic)



IPLV/NPLV Points (SI)

Load %	Cooling Capacity (Kw)	Input Power (Kw)	Cooling kW/Ton	Cooling COP (w/w)	Evap. WPD (kPa)	DBT (°C)	EEWT (°C)	ELWT (°C)
100	923.00 Kw	281.90 Kw	0.9639 Kw/Tons	3.27 W/W	63.00 kPa	35.00 °C	12.40 °C	7.00 °C
75	692.00 Kw	174.30 Kw	0.7949 Kw/Tons	3.97 W/W	63.00 kPa	27.00 °C	11.00 °C	7.00 °C
50	462.00 Kw	87.60 Kw	0.5984 Kw/Tons	5.27 W/W	63.00 kPa	19.00 °C	9.70 °C	7.00 °C
25	230.80 Kw	46.10 Kw	0.6304 Kw/Tons	5.01 W/W	63.00 kPa	19.00 °C	8.30 °C	7.00 °C

$$IPLV.SI/NPLV.SI=0.01*A+0.42*B+0.45*C+0.12*D=4.024$$

A=EER At 100%; B=EER At 75%; C=EER At 50%; D=EER At 25%;

Soft in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle , which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

IPLV/NPLV Points (IP)

Load %	Cooling Capacity (Tons)	Input Power (Kw)	Cooling kW/Ton	Cooling COP (Btu/w-h)	Evap. WPD (ft CA)	DBT (°F)	EEWT (°F)	ELWT (°F)
100	262.68 Tons	281.90 Kw	0.9639 Kw/Tons	11.18 EER (Btu/w-h)	21.08 ft CA	95.00 °F	54.32 °F	44.60 °F
75	196.94 Tons	174.30 Kw	0.7949 Kw/Tons	13.56 EER (Btu/w-h)	21.08 ft CA	80.60 °F	51.80 °F	44.60 °F
50	131.48 Tons	87.60 Kw	0.5984 Kw/Tons	18.01 EER (Btu/w-h)	21.08 ft CA	66.20 °F	49.46 °F	44.60 °F
25	65.69 Tons	46.10 Kw	0.6304 Kw/Tons	17.10 EER (Btu/w-h)	21.08 ft CA	66.20 °F	46.94 °F	44.60 °F

$$IPLV.SI/NPLV.SI=0.01*A+0.42*B+0.45*C+0.12*D=4.024$$

A=EER At 100%; B=EER At 75%; C=EER At 50%; D=EER At 25%;

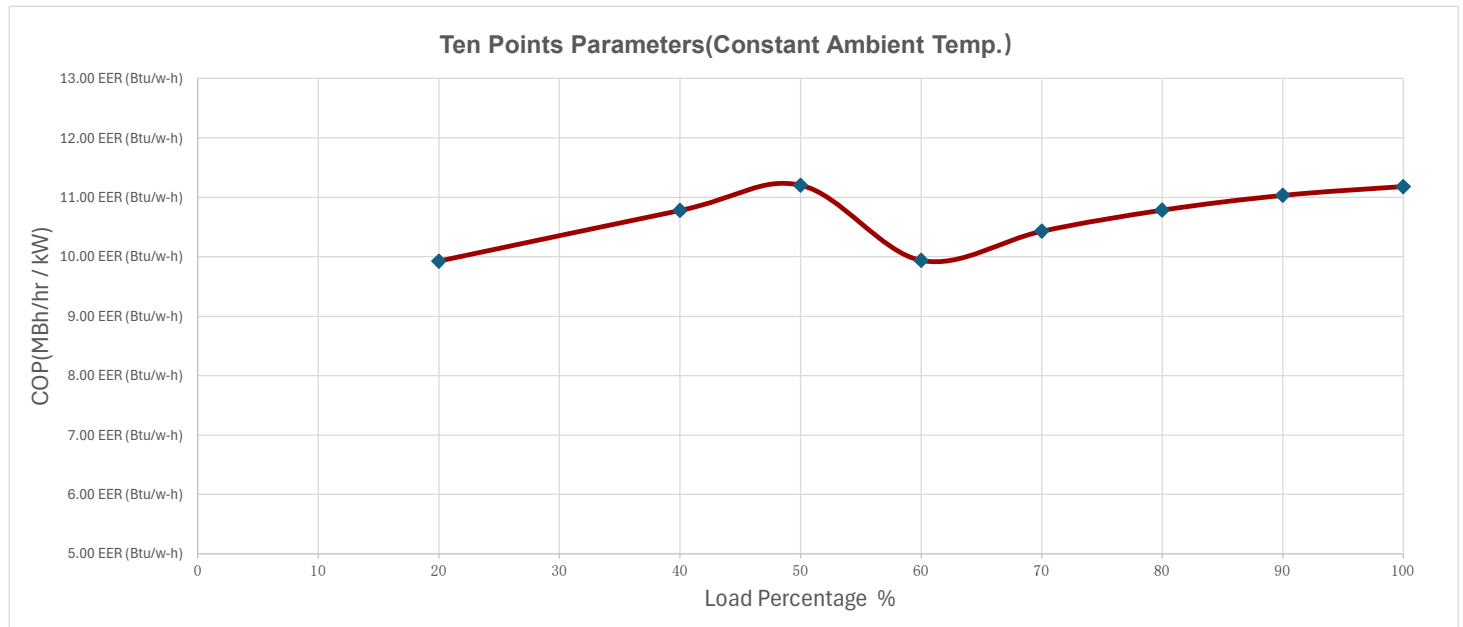
Soft in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle , which is based on AHRI Standard 550/590 (I-P) and AHRI Standard

Ten Points Parameters(Constant Ambient Temp.)

Load %	Cooling Capacity (Tons)	Input Power (Kw)	Cooling kW/Ton	Cooling COP (Btu/w-h)	Evap. WPD (ft CA)	DBT (°F)	EEWT (°F)	ELWT (°F)
100	262.68 Tons	281.90 Kw	0.9639 Kw/Tons	11.18 EER (Btu/w-h)	21.08 ft CA	95.00 °F	54.32 °F	44.60 °F
90	236.50 Tons	257.20 Kw	0.9768 Kw/Tons	11.03 EER (Btu/w-h)	21.08 ft CA	95.00 °F	53.24 °F	44.60 °F
80	210.03 Tons	233.70 Kw	0.9994 Kw/Tons	10.78 EER (Btu/w-h)	21.08 ft CA	95.00 °F	52.34 °F	44.60 °F
70	183.85 Tons	211.50 Kw	1.0333 Kw/Tons	10.43 EER (Btu/w-h)	21.08 ft CA	95.00 °F	51.44 °F	44.60 °F
60	157.67 Tons	190.60 Kw	1.0845 Kw/Tons	9.94 EER (Btu/w-h)	21.08 ft CA	95.00 °F	50.36 °F	44.60 °F
50	131.48 Tons	141.00 Kw	0.9622 Kw/Tons	11.20 EER (Btu/w-h)	21.08 ft CA	95.00 °F	49.46 °F	44.60 °F
40	105.02 Tons	116.90 Kw	0.9998 Kw/Tons	10.78 EER (Btu/w-h)	21.08 ft CA	95.00 °F	48.38 °F	44.60 °F
20	78.83 Tons	95.30 Kw	1.0858 Kw/Tons	9.93 EER (Btu/w-h)	21.08 ft CA	95.00 °F	47.48 °F	44.60 °F

For single COMP chiller, the 10% and 20% load are out of running range, so the data is only for reference;For double COMP chiller, the 10% load are out of running range, so the data is only for reference

Chiller Model: CA2-260-4210

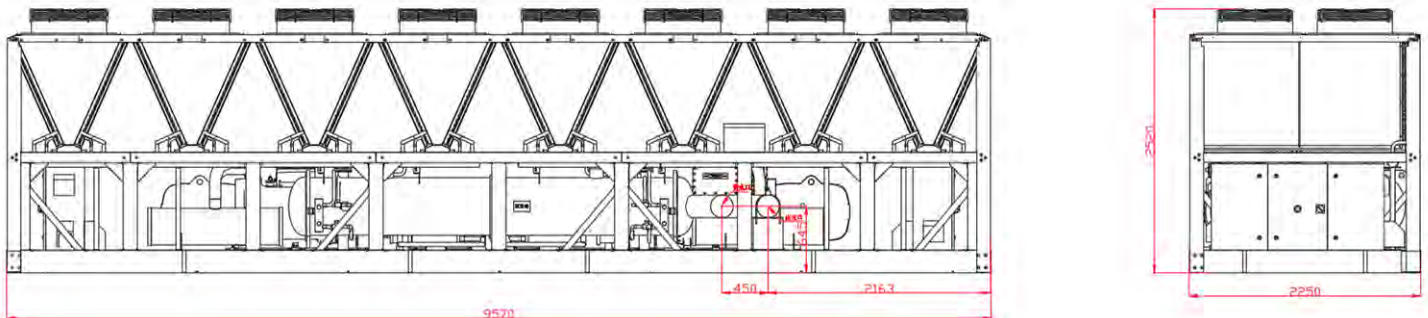
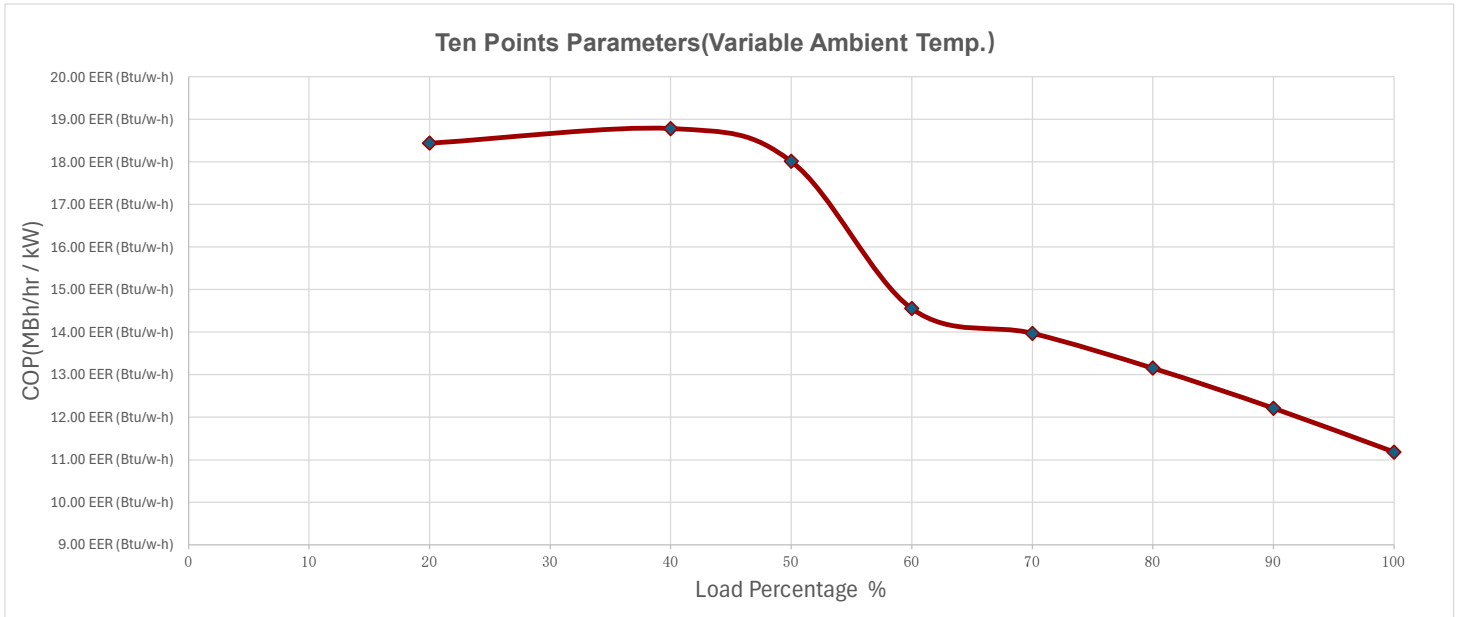


Ten Points Parameters(Variable Ambient Temp.)

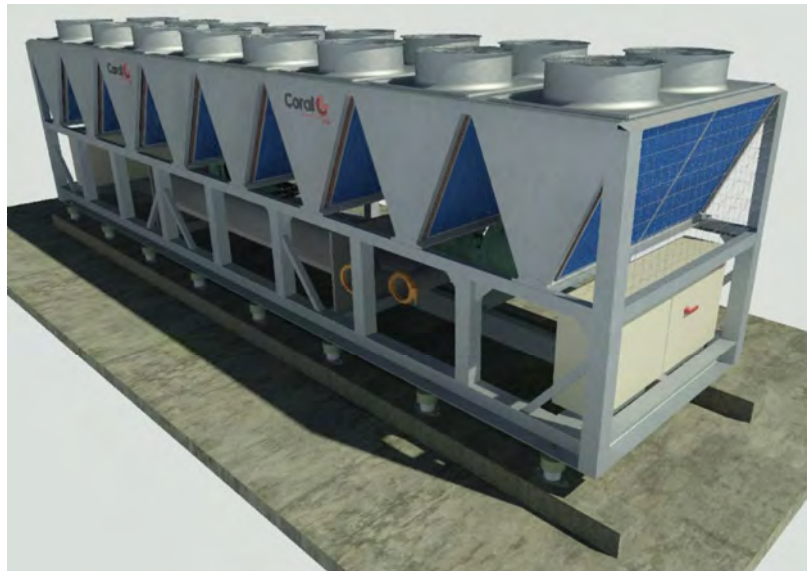
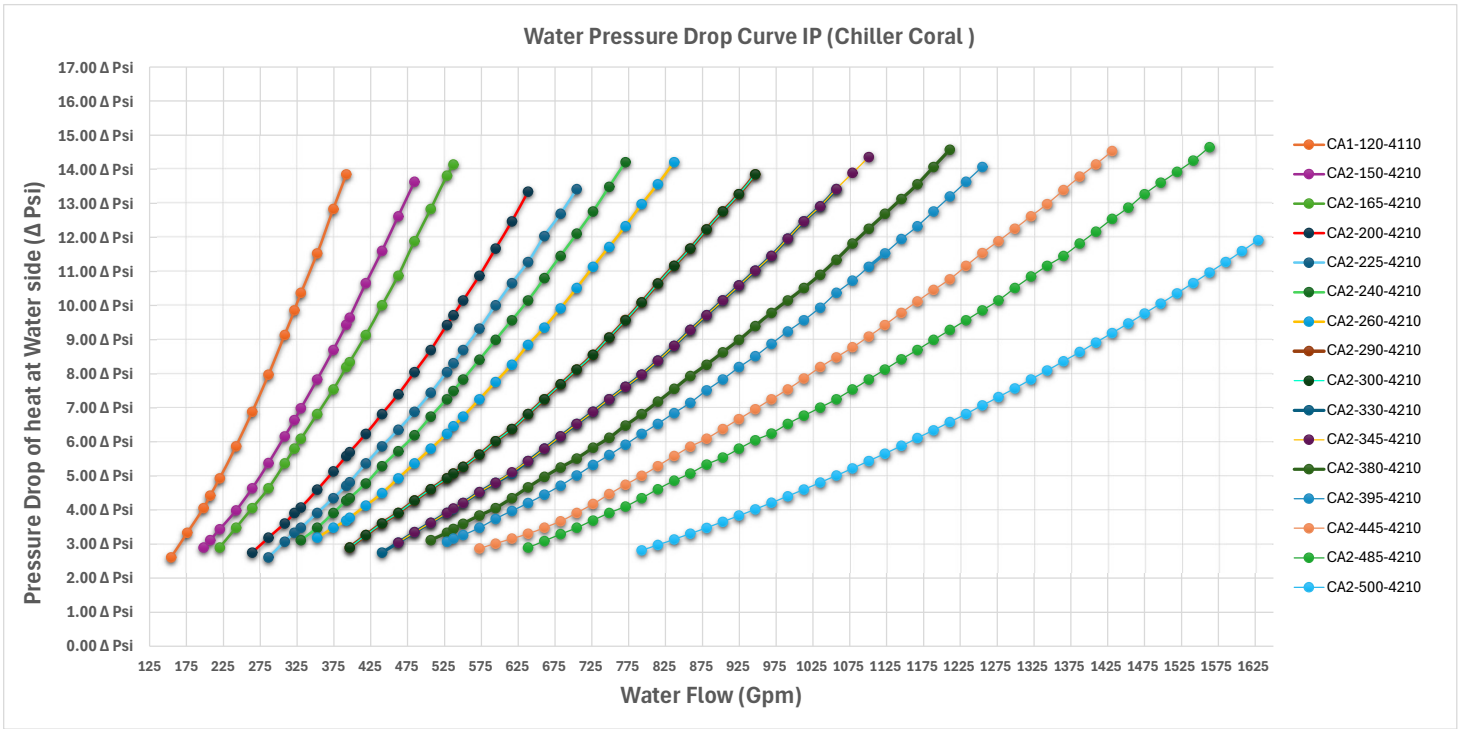
Load %	Cooling Capacity (Tons) (Dual Compressor)	Input Power (Kw)	Cooling kW/Ton	Cooling COP (Btu/w-h)	Evap. WPD (ft CA)	DBT (°F)	EEWT (°F)	ELWT (°F)
100	262.68 Tons	281.90 Kw	0.9639 Kw/Tons	11.18 EER (Btu/w-h)	21.08 ft CA	95.00 °F	54.32 °F	44.60 °F
90	236.50 Tons	232.40 Kw	0.8826 Kw/Tons	12.21 EER (Btu/w-h)	21.08 ft CA	89.24 °F	53.24 °F	44.60 °F
80	210.03 Tons	191.60 Kw	0.8194 Kw/Tons	13.15 EER (Btu/w-h)	21.08 ft CA	83.48 °F	52.34 °F	44.60 °F
70	183.85 Tons	157.90 Kw	0.7714 Kw/Tons	13.97 EER (Btu/w-h)	21.08 ft CA	77.72 °F	51.44 °F	44.60 °F
60	157.67 Tons	130.00 Kw	0.7406 Kw/Tons	14.55 EER (Btu/w-h)	21.08 ft CA	71.96 °F	50.36 °F	44.60 °F
50	131.48 Tons	87.60 Kw	0.5984 Kw/Tons	18.01 EER (Btu/w-h)	21.08 ft CA	66.20 °F	49.46 °F	44.60 °F
40	105.02 Tons	67.10 Kw	0.5739 Kw/Tons	18.78 EER (Btu/w-h)	21.08 ft CA	60.44 °F	48.38 °F	44.60 °F
20	78.83 Tons	51.30 Kw	0.5845 Kw/Tons	18.44 EER (Btu/w-h)	21.08 ft CA	55.40 °F	47.48 °F	44.60 °F

For single COMP chiller, the 10% and 20% load are out of running range, so the data is only for reference;For double COMP chiller, the 10% load are out of running range, so the data is only for reference

Chiller Model: CA2-260-4210



Dimension Model: CA2-260-4210	Length	Width	Height
	9,570.00 mm	2,250.00 mm	2,520.00 mm



CA2-260-4210		
Cooling Capacity:	922.00 Kw	260.00 Tons
Water Flow (Max):	159.00 m ³ /hr	700.06 Gpm
Width:	2,250.00 mm	88.58 in
Length:	9,570.00 mm	376.77 in
Height:	2,520.00 mm	99.21 in
Fan Quantity:	16.00 Units	
Nozzle Size(DN):	200.00 mm	8.00 in
Operating Weight:	9,090.00 Kgs	20,040.02 Lbs