Multi zone inverter mini split	MODEL: MPD18KCH22S-O	WILLIS

Job Name: Location:

Engineer Name: ☐ File ☐ Resubmit Contractor:

System No: ☐ Approval ☐ Other Date:

General Features

- High And Low Pressure Protection Features
- Over Load Protection Features
- Over-Current Protection
- Anti Freeze Protection

Unit Performance:

Cooling:	
Capacity (Min-Rated-Max, Btu/h)	6998-18000-21000
SEER	22
EER (Btu/h)/w	12,5
Heating:	
Capacity (Min-Rated-Max, Btu/h)	7,000-19000-22600
HSPF	10,5
COP (W/W)	3,66

****

Piping

Refrigerant Charge (lbs)	3,52
Liquid Line (in)	1/4
Gas Line (in)	3/8
Max Total Piping (ft)	65,6
Max ODU to IDU Piping (ft)	32,8
Total Piping Length (no add'l refrigerant, ft)	32,8
Max Elevation between ODU and IDU (ft)	32,8
Max Elevation between IDU and IDU (ft)	32,8

Operating Range:

Cooling (°F WB)	0~118
Heating (°F DB)	-5~75

R410A

INVERTER

AHRI CERTIFIED www.ahridirectory.org

Unit Specification

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (dB(A))	56
Net Weight (lbs)	114,4
Min. Number IDU	1
Max. Number IDU	2
Dehumidification (Pint/h)	N/A
Heat Exchanger Coating	GoldFin™

Electrical Specification

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 14/4
MOP (A)	25
MCA (A)	25
Cooling Rated Amps (A)	6,26
Heating Rated Amps (A)	6,61
Compressor RLA (A)	10,82
Fan Motor RLA (A)	0,38
Nominal Cooling Power Input (kW)	1,44
Nominal Heating Power Input (kW)	1,52

Compressor:

Quantity	1
Type	Inverter Rotary
Oil/Type	RB68EP

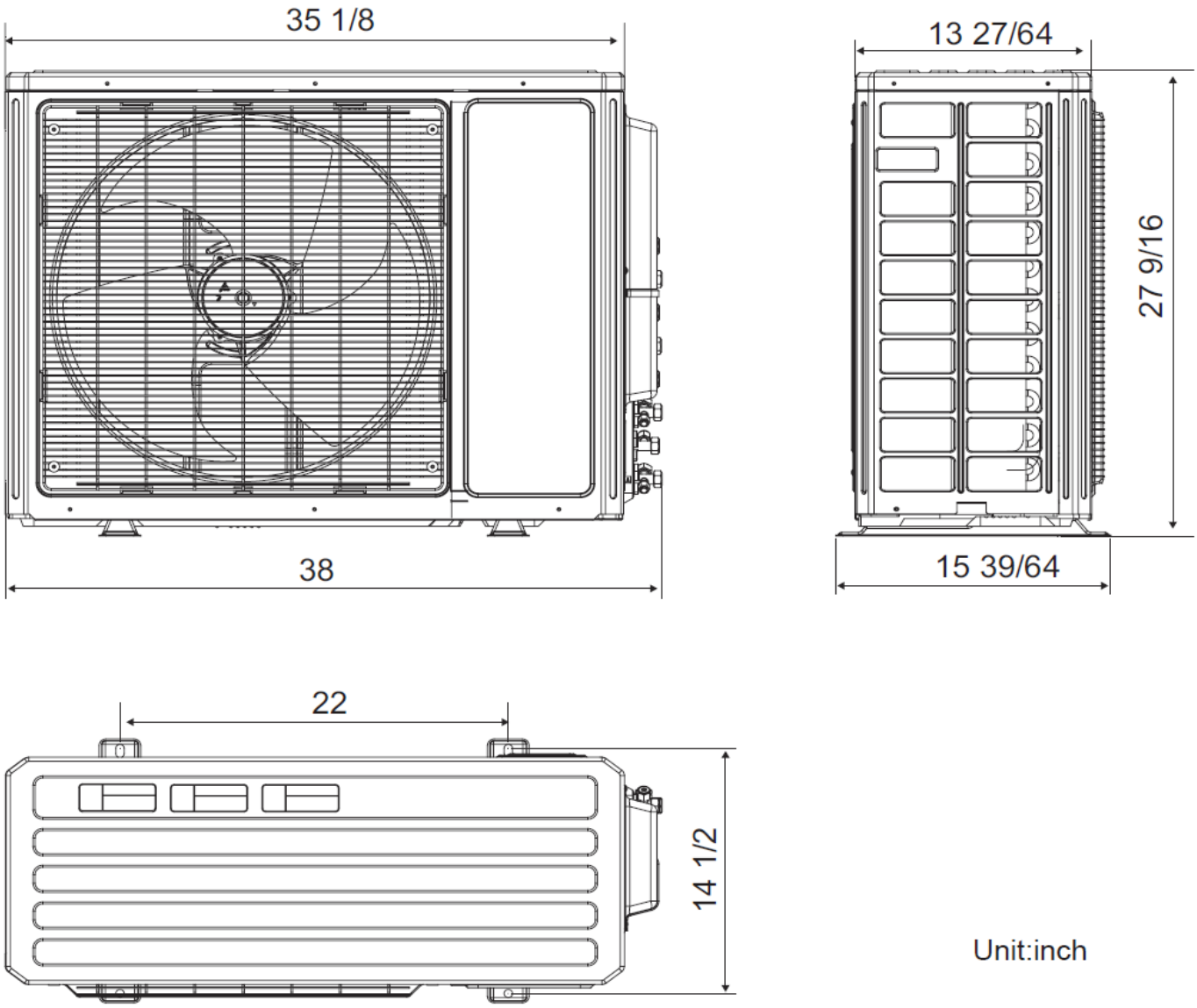
Fan

Type	Axial-flow
Quantity	1
Motor/Drive	DC motor/Direct drive
Max Air Flow Rate (CFM)	1883

AHRI Certification Ref #

Multi zone inverter mini split	MODEL: MPD18KCH22S-O	WILLIS

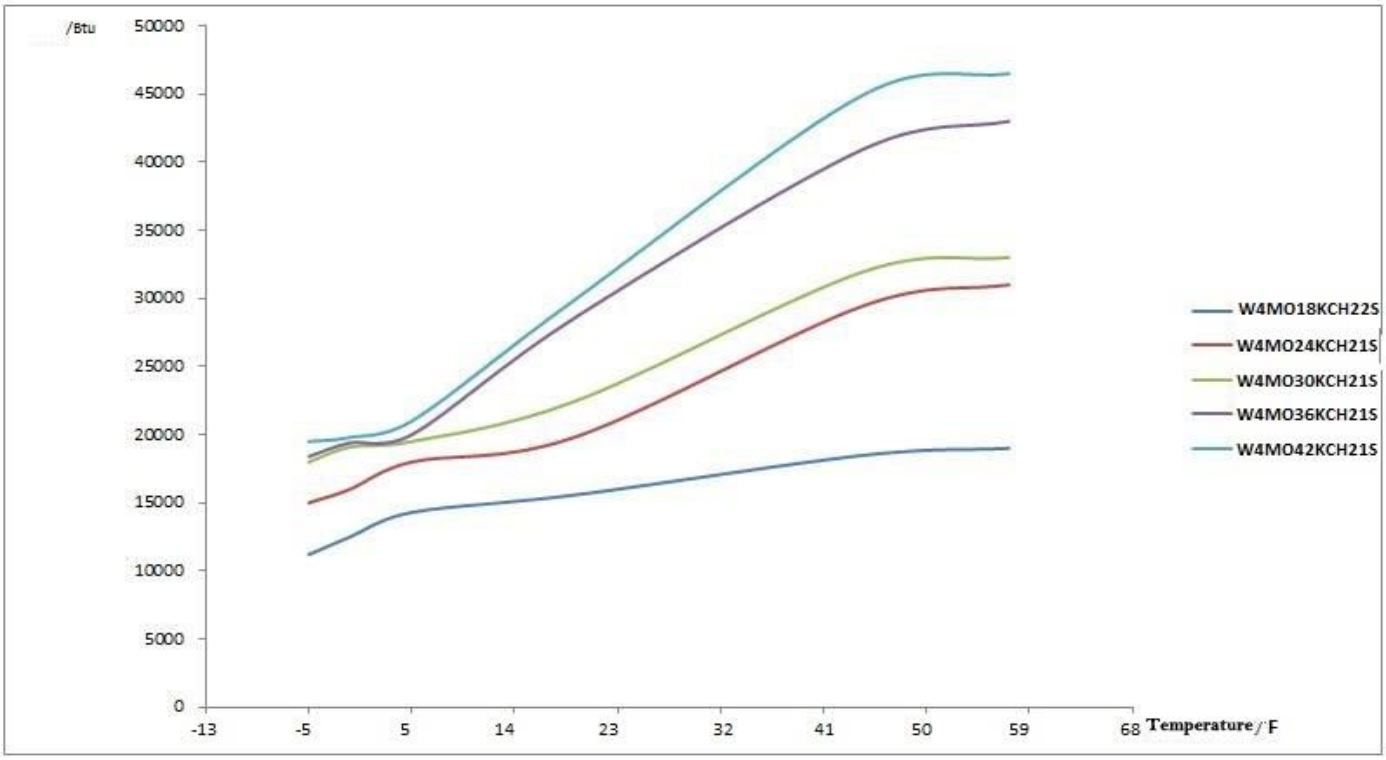
Outline Dimension Diagram



Unit:inch

Multi zone inverter mini split	MODEL: MPD18KCH22S-O	WILLIS

COMBINATIONS	18K ODU
09 + 09	✓
09 + 12	✓



GLOSSARY

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

HSPF - Heating Seasonal Performance Factor

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

WILLIS
5965 Chemin de la Côte de Liesse
Saint laurent, QC, Canada, H4T 1C3

Contact: +1 438 792 1956
info@willishvac.com
www.willishvac.com

Multi zone inverter mini split	MODEL: MPD18KCH22S-O	WILLIS

COOLING PERFORMANCE

	DB / WB	Indoor Ambient Temperature											
		70 F / 59 F			75 F / 63 F			80 F / 67 F			90 F / 73 F		
		TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)
Outdoor Ambient Temperature (DB)	-0.4 F	10,850	8,510	700	12,230	9,600	740	12,930	10,140	770	14,570	11,430	820
	5 F	11,120	8,720	700	12,550	9,840	750	13,420	10,530	770	14,940	11,720	820
	14 F	11,480	9,010	720	12,950	10,160	760	13,690	10,740	790	15,430	12,100	850
	23 F	12,580	9,870	720	14,330	11,240	760	15,420	12,090	790	16,960	13,300	840
	32 F	13,226	10,375	719	15,064	11,814	763	15,489	12,143	789	17,829	13,989	841
	41 F	13,905	10,907	756	15,836	12,419	802	16,283	12,766	829	18,743	14,707	884
	50 F	14,484	11,361	788	16,496	12,937	835	16,961	13,298	864	19,524	15,319	921
	59 F	15,260	11,970	830	17,380	13,630	880	17,870	14,010	910	20,570	16,140	970
	68 F	17,281	13,553	1,221	18,361	14,398	1,260	19,621	15,389	1,337	22,501	17,650	1,430
	77 F	17,077	13,395	1,254	18,163	14,246	1,293	19,441	15,249	1,375	22,321	17,504	1,474
	86 F	16,235	12,733	1,403	17,317	13,584	1,447	18,901	14,824	1,535	21,631	16,963	1,645
	95 F	15,367	12,052	1,507	16,441	12,891	1,551	18,001	14,119	1,650	20,719	16,252	1,766
	104 F	14,623	11,469	1,557	15,691	12,307	1,606	17,533	13,754	1,705	19,975	15,662	1,826
	113 F	13,873	10,879	1,590	14,941	11,718	1,639	16,789	13,164	1,744	19,225	15,079	1,865
	118 F	13,501	10,587	1,606	14,401	11,292	1,656	16,201	12,709	1,760	18,541	14,544	1,881

HEATING PERFORMANCE

	DB / WB	Indoor Ambient Temperature											
		70 F / 59 F			75 F / 63 F			80 F / 67 F			90 F / 73 F		
	DB	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	SC (BtuH)	Input Power (watts)	Input Power (watts)
Outdoor Ambient Temperature (DB)	-4 F	10,260	10,260	1,000	9,970	9,970	1,020	9,780	9,780	1,050	9,530	9,530	1,080
	0 F	11,121	11,121	1,095	10,800	10,800	1,117	10,598	10,598	1,158	10,319	10,319	1,185
	5 F	11,428	11,428	1,119	11,099	11,099	1,142	10,891	10,891	1,184	10,606	10,606	1,212
	7 F	11,736	11,736	1,144	11,397	11,397	1,167	11,184	11,184	1,210	10,893	10,893	1,238
	17 F	12,597	12,597	1,193	12,229	12,229	1,217	11,997	11,997	1,262	11,683	11,683	1,291
	28 F	14,230	14,230	1,271	13,856	13,856	1,297	13,458	13,458	1,345	13,298	13,298	1,376
	38 F	17,693	17,693	1,463	17,319	17,319	1,492	16,927	16,927	1,548	16,761	16,761	1,583
	47 F	19,997	19,997	1,522	19,392	19,392	1,553	19,006	19,006	1,610	18,483	18,483	1,647
	57 F	20,657	20,657	1,551	20,033	20,033	1,583	19,635	19,635	1,641	19,089	19,089	1,679
	68 F	21,490	21,490	1,600	20,840	20,840	1,640	20,430	20,430	1,700	19,860	19,860	1,740
	77 F	21,990	21,990	1,640	21,330	21,330	1,680	20,900	20,900	1,740	20,320	20,320	1,780

LEGEND
DB --- Dry Bulb
WB --- Wet Bulb
TC --- Total Net Cooling Capacity (BtuH)
SC --- Sensible Capacity (BtuH) Input Power---(Watts)