






## WIRED CONTROLLERS

CONTROLLER	COMPATIBLE WITH	MODEL NUMBER	PART NUMBER	KEYPAD FEATURES & FUNCTIONS										
				ENTER / CANCEL	FUNCTION	FAN	TIMER	MODE (°/°)	POWER (ON/OFF)	SWING	MENU/OK	IR RECEIVER	WIFI	
	<b>SINGLE &amp; MULTI-ZONE</b> LIVO SERIES VIREO SERIES SAPPHIRE UNIVERSAL FLOOR / CEILING CEILING CASSETTE SLIM DUCT	XE71	MC20700970	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	<b>WIFI CONTROLLER</b> CEILING CASSETTE UNIVERSAL FLOOR / CEILING SLIM DUCT <small>(For use with both A and B series models)</small>	XE72	MC20701210	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	<b>SINGLE &amp; MULTI-ZONE</b> LIVO SERIES VIREO SERIES SAPPHIRE CEILING CASSETTE UNIVERSAL FLOOR / CEILING SLIM DUCT	XK76	MC20700360	✓	✓	✓		✓	✓	✓	✓	✓	✓	
	<b>U-MATCH &amp; U-MATCH+</b> CEILING CASSETTE UNIVERSAL FLOOR / CEILING SLIM DUCT	XK60	MC20700550	✓	✓	✓	✓	✓	✓				✓	
	<b>MULTI-ZONE</b> CEILING CASSETTE UNIVERSAL FLOOR / CEILING SLIM DUCT	XK19	MC20700140	✓	✓	✓		✓	✓	✓			✓	

## GLOSSARY

- AWG: Main Power Wire Size  
MCA: Min Circuit Amps  
MOCP: Max Over Current Protection (Amps)  
E.S.P.: External Static Pressure

## NOTES

### ELECTRICAL & COMMUNICATION

- System must be on a single dedicated circuit
- Main power is supplied to the outdoor unit
- Follow all local building codes and NEC regulations
- Interconnecting Cable recommendation: 14/4 AWG stranded copper conductors, THHN 600V unshielded wire
- Use shielded cable if installation is in close proximity to RF and EMI transmitting devices

### SYSTEM EFFICIENCY RATINGS

- Check AHRI Documents for SEER2/EER2/HSPF2 Ratings

### LINE SETS

- Minimum length to indoor unit: 10'
- Line Sets are sized to indoor unit port sizes
- See submittal for line set adapters included with outdoor unit, additional field supplied adapters may be required

### WIRED & REMOTE CONTROLLERS

- Wireless Remote Controller included with all models
- Wired Controller optional on Livo GEN4, Vireo GEN3 and Sapphire
- WIFI enabled for Sapphire, Vireo GEN3 and Livo GEN4
- XE72 WIFI wired controller is included with Slim Duct, Floor/Ceiling, Cassette

### INSTALL

- Wind baffle not required for outdoor units

### INSTALL SUPPORT

greetraining.com  
greecomfort.com/resources






SCAN FOR INSTALLATION TIPS



# QUICK REFERENCE GUIDE





# SINGLE-ZONE

SINGLE-ZONE SYSTEMS													
	Indoor Model No.	Outdoor Model No.	Nominal Capacity (Btu)	SEER2 / EER2	HSPF2 / COP	Cooling Range (°F)	Heating Range (°F)	MCA / MOCF		Line Set (Port) Size	Max line length	Max Lift/Drop OD to ID units	WiFi
<b>LIVO GEN3</b>													
115-1-60	4LIV09HP115V1AH	4LIV09HP115V1AO	9K	19.5 / 11.3	8.6 / 3.6	0 - 115	-13 - 75	16 / 20	NO	1/4 x 3/8	66'	40'	Built-In
	4LIV12HP115V1AH	4LIV12HP115V1AO	12K	17.5 / 8.7	8.5 / 3.5	0 - 115	-13 - 75	20 / 30	NO	1/4 x 3/8	66'	40'	Built-In
 208/230-1-60	4LIV09HP230V1AH	4LIV09HP230V1AO	9K	19.5 / 11.3	8.5 / 3.5	0 - 115	-13 - 75	9 / 15	NO	1/4 x 3/8	66'	40'	Built-In
	4LIV12HP230V1AH	4LIV12HP230V1AO	12K	17.5 / 8.7	8.5 / 3.5	0 - 115	-13 - 75	11 / 15	NO	1/4 x 3/8	66'	40'	Built-In
	4LIV18HP230V1AH	4LIV18HP230V1AO	18K	17.5 / 10.1	8.5 / 3.2	0 - 115	-13 - 75	14 / 20	NO	1/4 x 1/2	100'	50'	Built-In
	4LIV24HP230V1AH	4LIV24HP230V1AO	24K	18 / 11.6	8.5 / 3.4	0 - 122	-13 - 75	15 / 20	NO	1/4 x 5/8	131'	82'	Built-In
	4LIV30HP230V1AH	4LIV30HP230V1AO	30K	20 / 11.35	8.5 / 3.4	-4 - 115	-13 - 75	20 / 30	NO	1/4 x 5/8	131'	82'	Built-In
4LIV36HP230V1AH	4LIV36HP230V1AO	36K	20 / 10.5	8.5 / 3.2	-4 - 115	-13 - 75	23 / 35	NO	1/4 x 5/8	131'	82'	Built-In	
<b>VIREO GEN3</b>													
 208/230-1-60	3VIR09HP230V1AH & BH <sup>1</sup>	3VIR09HP230V1BO	9K	25.5 / 14.7	10.2 / 3.9	-20 - 122	-22 - 86	10 / 15	YES	1/4 x 3/8	66'	40'	Built-In
	3VIR12HP230V1AH & BH <sup>1</sup>	3VIR12HP230V1BO	12K	24 / 12.5	9 / 3.8	-20 - 122	-22 - 86	10 / 15	YES	1/4 x 1/2	66'	40'	Built-In
	3VIR18HP230V1AH & BH <sup>1</sup>	3VIR18HP230V1BO	18K	23.5 / 13	9 / 3.8	-20 - 122	-22 - 86	14 / 20	YES	1/4 x 5/8	100'	50'	Built-In
	3VIR24HP230V1AH & BH <sup>1</sup>	3VIR24HP230V1BO	24K	24.5 / 13	9.5 / 3.8	-20 - 122	-22 - 86	16 / 25	YES	1/4 x 5/8	131'	82'	Built-In

<sup>1</sup>AH=MATT FINISH AND BH=SMOOTH FINISH



ULTRA PRODUCT FOR EXTREME CONDITIONS & HIGH EFFICIENCY														
	Indoor Model No.	Outdoor Model No.	Nominal Capacity (Btu)	SEER2 / EER2	HSPF2 / COP	Cooling Range (°F)	Heating Range (°F)	MCA / MOCF (INDOOR-NO HEATER)	MCA / MOCF (OUTDOOR)		Line Set (Port) Size	Max line length	Max Lift/Drop OD to ID units	
<b>VIREO+ ULTRA</b>														
 208/230-1-60	VIRU30HP230V1AH	VIRU30HP230V1AO	30K	23 / 11.2	10.5 / 3.11	0 - 115	-31 - 75	30 / 50	NO	NO	1/4 x 5/8	165'	100'	Built-In
	VIRU36HP230V1AH	VIRU36HP230V1AO	36K	23 / 10.25	10.5 / 3.17	0 - 115	-31 - 75	32 / 50	NO	NO	1/4 x 5/8	165'	100'	Built-In
<b>SAPPHIRE</b>														
 208/230-1-60	SAP09HP230V1AH	SAP09HP230V1AO	9K	38 / 16.67	15 / 4.47	0 - 129	-22 - 75	9 / 15	YES	NO	1/4 x 1/2	49'	33'	Built-In
	SAP12HP230V1AH	SAP12HP230V1AO	12K	30.5 / 15.3	14 / 3.8	0 - 129	-22 - 75	9 / 15	YES	NO	1/4 x 1/2	98'	49'	Built-In
	SAP18HP230V1AH	SAP18HP230V1AO	18K	24.5 / 13.54	12 / 3.52	0 - 129	-22 - 75	22 / 30	YES	NO	1/4 x 5/8	131'	66'	Built-In
	SAP24HP230V1AH	SAP24HP230V1AO	24K	21.5 / 13	12 / 3.5	0 - 129	-22 - 75	22 / 35	YES	NO	1/4 x 5/8	164'	98'	Built-In
<b>FLEXX HP</b>														
 HEAT PUMP	FLEXX24HP230V1BH	FLEXX36HP230V1AO	24K	17 / 12	9 / 4	5 - 129	-22 - 75	4 / 15	24 / 35	YES	3/8 x 3/4	164'	100'	
	FLEXX36HP230V1BH	FLEXX36HP230V1AO	36K	16 / 10	9 / 3	5 - 129	-22 - 75	4 / 15	24 / 35	NO	3/8 x 3/4	164'	100'	
	FLEXX48HP230V1BH	FLEXX60HP230V1AO	48K	17 / 11	9 / 3.3	5 - 129	-22 - 75	8 / 15	35 / 45	NO	3/8 x 3/4	100'	50'	
	FLEXX60HP230V1BH	FLEXX60HP230V1AO	60K	16 / 10	9 / 3.5	5 - 129	-22 - 75	8 / 15	35 / 45	NO	3/8 x 3/4	100'	50'	

# MULTI-ZONE

OUTDOOR UNITS													
Outdoor Model No.	Nominal Capacity (Btu)	Zones	SEER2 / EER2	HSPF2 / COP	Cooling Range (°F)	Heating Range (°F)	Initial Unit Charge	Max Pipe length	Max length to indoor unit	Max Lift/Drop OD to ID units	MCA / MCOP	Min AWG	
<b>MULTI GEN2</b>													
MULTI18HP230V1EO	18K	2	21 / 12	10 / 3.8	22 - 118	-22 - 75	33'	131'	66'	49'	15 / 20	14	
MULTI24HP230V1EO	24K	2 - 3	21 / 12.5	10 / 3.9	22 - 118	-22 - 75	98'	197'	66'	49'	19 / 25	12	
MULTI30HP230V1EO	30K	2 - 4	21 / 12.5	10 / 3.9	22 - 118	-22 - 75	131'	263'	82'	82'	23 / 35	10	
MULTI36HP230V1EO	36K	2 - 4	21 / 12	10 / 3.6	22 - 118	-22 - 75	131'	263'	82'	82'	29 / 45	10	
MULTI42HP230V1EO	42K	2 - 5	21 / 12	10 / 3.6	22 - 118	-22 - 75	164'	328'	82'	82'	24 / 40	10	
<b>MULTI+ ULTRA FOR EXTREME EONDITIONS &amp; HIGH EFFICIENCY</b>													
MULTIU18HP230V1DO	18K	2	20 / 12	10 / 3.6	0 - 115	-31 - 75	66'	164'	82'	26'	20 / 35	10	
MULTIU24HP230V1DO	24K	2 - 3	20 / 12	10 / 3.9	0 - 115	-31 - 75	98'	230'	82'	49'	23 / 40	10	
MULTIU36HP230V1DO	36K	2 - 4	16 / 9	8.6 / 3.5	0 - 115	-31 - 75	131'	246'	82'	49'	36 / 60	8	
MULTIU42HP230V1DO	42K	2 - 5	16 / 9	8.6 / 3.7	0 - 115	-31 - 75	131'	246'	82'	49'	36 / 60	8	

INDOOR UNITS													
Indoor Model No.	Nominal Capacity (Btu)	Line Set (Port) Size	Indoor Model No.	Nominal Capacity (Btu)	Line Set (Port) Size	Indoor Model No.	Nominal Capacity (Btu)	Line Set (Port) Size	Indoor Model No.	Nominal Capacity (Btu)	Line Set (Port) Size	E.S.P	
<b>LIVO GEN4</b>			<b>SAPPHIRE</b>			<b>FLOOR/CEILING</b>			<b>SLIM DUCT</b>				
4LIV05HP230V1AH	5K	1/4 x 3/8	SAP09HP230V1AH	9K	1/4 x 1/2	FLR09HP230V1BF	9K	1/4 x 3/8	DUCT09HP230V1BD	9K	1/4 x 3/8	0 - .6	
4LIV07HP230V1AH	7K	1/4 x 3/8	SAP12HP230V1AH	12K	1/4 x 1/2	FLR12HP230V1BF	12K	1/4 x 1/2	DUCT12HP230V1BD	12K	1/4 x 1/2	0 - .6	
4LIV09HP230V1AH	9K	1/4 x 3/8	SAP18HP230V1AH	18K	1/4 x 5/8	FLR18HP230V1BF	18K	1/4 x 1/2	DUCT18HP230V1BD	18K	3/8 x 5/8	0 - .8	
4LIV12HP230V1AH	12K	1/4 x 3/8	SAP24HP230V1AH	24K	1/4 x 5/8	FLR24HP230V1BF	24K	3/8 x 5/8	DUCT24HP230V1BD	24K	3/8 x 5/8	0 - .8	
4LIV18HP230V1AH	18K	1/4 x 1/2											
4LIV24HP230V1AH	24K	1/4 x 5/8											
<b>VIREO GEN3<sup>2</sup></b>			<b>CASSETTE<sup>1</sup></b>			<b>MINI CONSOLE</b>							
3VIR09HP230V1AH & BH <sup>2</sup>	9K	1/4 x 3/8	CAS12HP230V1BC	12K	1/4 x 3/8	CONS09HP230V1AF	9K	1/4 x 3/8					
3VIR12HP230V1AH & BH <sup>2</sup>	12K	1/4 x 1/2	CAS18HP230V1BC	18K	1/4 x 1/2	CONS12HP230V1AF	12K	1/4 x 3/8					
3VIR18HP230V1AH & BH <sup>2</sup>	18K	1/4 x 5/8	CAS24HP230V1BC	24K	3/8 x 5/8	CONS18HP230V1AF	18K	1/4 x 1/2					
3VIR24HP230V1AH & BH <sup>2</sup>	24K	1/4 x 5/8											
			<sup>1</sup> CASGRILLEBSM	12K & 18K									
			<sup>1</sup> CASGRILLEBLG	24K									

<sup>1</sup> DECORATIVE CASSETTE GRILLE IS REQUIRED

<sup>2</sup> AH=MATT FINISH AND BH=SMOOTH FINISH

# RATED COMBINATIONS

MODEL NUMBER	TWO UNITS	THREE UNITS	FOUR UNITS	FIVE UNITS
MULTI18HP230V1EO MULTIU18HP230V1DO	9+9 9+12 12+12			
	<b>ABOVE SIZES PLUS:</b>			
MULTI24HP230V1EO MULTIU24HP230V1DO	9+18	9+9+9		
	12+18	9+9+12		
	18+18	9+9+18		
		9+12+12		
		12+12+12		
MULTI30HP230V1EO	<b>ABOVE SIZES PLUS:</b>		<b>ABOVE SIZES PLUS:</b>	
	9+24	9+9+24		9+9+9+9
	12+24	9+12+18		9+9+9+12
	18+24	12+12+18		9+9+9+18
		9+9+12+12		
MULTI36HP230V1EO MULTIU36HP230V1DO	<b>ABOVE SIZES PLUS:</b>		<b>ABOVE SIZES PLUS:</b>	
	<b>ABOVE SIZES PLUS:</b>		<b>ABOVE SIZES PLUS:</b>	
	9+24	9+9+24		9+9+9+24
	12+24	9+12+24		9+9+12+18
	18+24	9+18+18		9+9+12+24
	24+24	9+18+24		9+9+18+18
		12+12+24		9+12+12+12
	12+18+18		9+12+12+18	
	12+18+24		9+12+12+18	
	18+18+18		12+12+12+12	
	18+18+24		9+12+12+12	
	9+24+24	9+9+18+24		9+9+9+9+9
	12+24+24	9+12+24+24		9+9+9+12
	18+18+24	9+12+18+18		9+9+9+18
		9+12+18+24		9+9+9+24
		9+18+18+18		9+9+9+12+12
		12+12+12+24		9+9+12+12+18
		12+12+12+12		9+12+12+12+12
		9+12+12+18		9+9+12+12+18
		9+12+12+12		9+12+12+12+18
		9+12+12+18		9+12+12+12+18
		12+12+18+18		12+12+12+12+18
MULTI42HP230V1EO MULTIU42HP230V1DO	<b>ALL THE ABOVE SIZES</b>			
	<b>ABOVE SIZES PLUS:</b>			

**Note:** You may substitute the 9K unit with a 5K or 7K High Wall unit.