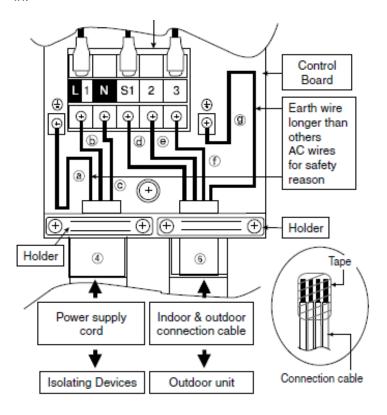
Number	092
Subject	Panasonic Etherea Models – Install FAQ's
Date	25 February 2014

#### **Wiring**

Power supply is to INDOOR unit with a 3 core plus earth interconnecting cable to the outdoor unit.

The interconnecting cable is on S1, 2, 3 plus earth connection. This is separate to the live in.



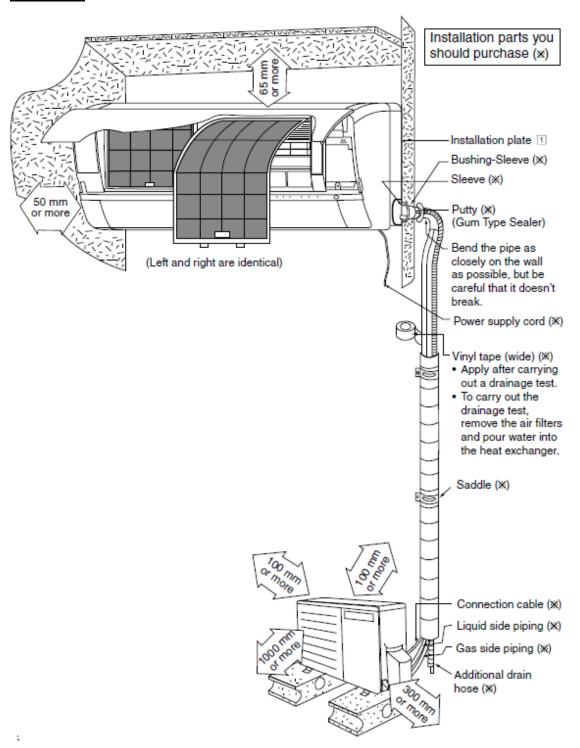
### **Torque Settings**

Do not overtighten, overtightening may cause gas le	eakage.
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Piping size	Torque
6.35 mm (1/4")	[18 N•m (1.8 kgf.m)]
9.52 mm (3/8")	[42 N•m (4.3 kgf.m)]
12.7 mm (1/2")	[55 N•m (5.6 kgf.m)]
15.88 mm (5/8")	[65 N•m (6.6 kgf.m)]
19.05 mm (3/4")	[100 N•m (10.2 kgf.m)]



#### **Clearances**





### Refrigerant Charge and Minimum/Maximum Pipe Runs

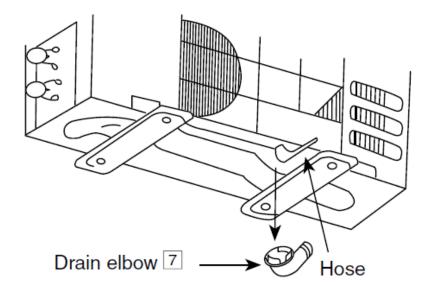
Model	Model Power	Piping size		Std.	Max. Elevation	Min. Piping	Max. Piping	Additional Refrigerant	Piping Length				
Model		Gas	Liquid	(m)	(m)	Length (m)	Length (m)	(g/m)	for add. gas (m)				
E7***, XE7***	3/4HP	9.52mm (3/8")	(3/8") 2.7mm (1/2") 6.35mm (1/4")		15	3	15	20	7.5				
E9***, XE9***	1.0HP				15	3	15	20	7.5				
E12***, XE12***	1.5HP				15	3	15	20	7.5				
E15***, XE15***	1.75HP	12.7mm (1/2")				1 5	<b>1 5</b>	5	15	3	15	20	7.5
E18***, XE18***	2.0HP				15	3	20	20	7.5				
E21***, XE21***	2.25HP				15	3	20	20	7.5				
E24***	2.5HP	15.88mm (5/8")			20	3	30	30	10				

Example: For E9\*\*\*

If the unit is installed at 10 m distance, the quantity of additional refrigerant should be 50 g .... (10-7.5) m x 20 g/m = 50 g.

#### **Drain**

All models come with a drain elbow included.





#### **Optional Controllers**

The unit comes complete with a standard infra red controller.

Optional controllers are Hard Wired or Wi-Fi Interface

#### Model Specification - Models 09 - 24

All cooling data shown below is based on SEER condition unless specified otherwise

4.10

All heating data shown below is based on SCOP (Avg. Climate) Average Climate condition unless specified otherwise

Indoor Unit Technical Data Model	CS-E9PKEW	CS-E12PKEW	CS-E18PKEW	CS-E24PKEW
Cooling (kW) - Nominal	2.50	3.50	5.00	6.80
Heating (kW) - Nominal	3.40	4.00	5.80	8.60
Sound Pressure - Cooling (dBA)	39/25/20	42/28/20	44/37/34	47/38/35
Sound Pressure - Cooling (dBA)	40/27/20	42/33/20	44/37/34	47/38/35
2 ( )	295	295	295	295
Height (mm) Width (mm)	870	870	1070	1070
Depth (mm)	255	255	255	255
	10		13	13
Weight (kG)		10		
Air Flow - Cooling (m³/min)	12.70	13.90	17.90	19.80
Air Flow - Heating (m³/min)	12.80	14.30	19.30	21.20
Outdoor Unit Technical Data				
Model	CU-E9PKE	CU-E12PKE	CU-E18PKE	CU-E24PKE
Height (mm)	542	619	695	795
Width (mm)	780	824	875	875
Depth (mm)	389	299	320	320
Weight (kG)	31	34	46	67
Sound Pressure - Cooling (dBA)	48	52	45	48
Sound Pressure - Heating (dBA)	49	52	46	50
Liquid (mm(inches))	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
Gas (mm(inches))	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Max Pipe Run	15	15	15	30
Max Pipe Lift	15	15	15	20
Pre-charged to (m)	7.5	7.5	7.5	10.0
Standing Charge (kG)	3.35/5.7	4.1/7.6	6.8/11.3	11.8/13.8
Refrigerant	R410a	R410a	R410a	R410a
Phase	Single	Single	Single	Single
Power Supply to	Indoor	Indoor	Indoor	Indoor
Max Max Start/Run Current (A)	1.00	1.05	1.24	1.80
Fuse Rating (A)	10	10	16	20
Interconnecting	3C + E	3C + E	3C + E	3C + E
System Power Input (Cool/Heat) - kW	0.530/0.730	0.850/0.925	1.440/1.520	2.080/2.660
	0.550/0.750	0.030/0.923	1.440/1.320	2.000/ 2.000
Energy Facts				
SEER	6.60	6.60	6.90	6.10



SCOP (Avg. Climate)