



3 PIPE FLOW LOGIC 410 RANGE

Three pipe VRF air conditioning solutions

Airwell

FLOW LOGIC RANGE

FLOW LOGIC 3i-410 is a range of variable refrigerant flow solutions for 3 way heating and air-conditioning using the high performance R410A fluid. This range is unmatched by anything on the market and **can independently operate up to 40 interior units in cooling and heating mode**. The DC Inverter technology means that these systems achieve a **COP of 4** whilst offering ultra silent operation, and a compact footprint.

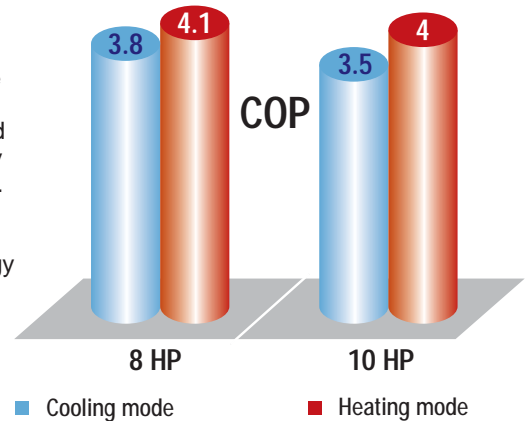


Guarantees

These reliable and high performance ranges, containing proven components, are equipped with the latest generation DC Inverter technology. We are so confident of the performance of our products that we guarantee all the compressors in the **FLOW LOGIC** range for 5 years, and parts and service for 3 years, providing the equipment was installed by an approved Airwell Installer.

Energy savings

The energy efficiency of the **FLOW LOGIC 3i-410** is exceptional thanks to the use of DC Inverter compressors and the use of variable speed fan motors which significantly improve the distribution of air. The use of a new generation of heat exchanger and a ventilation grill with low energy loss also contribute to the improvement of the energy efficiency of the system.

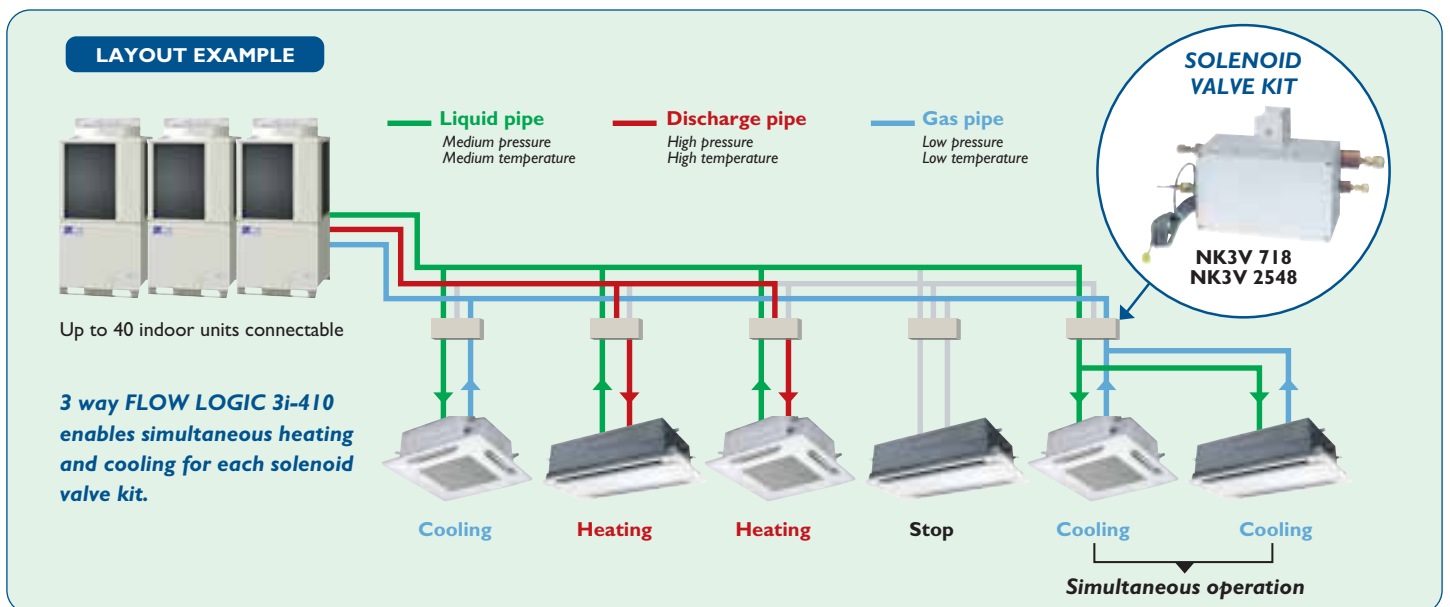


A range which meets all requirements

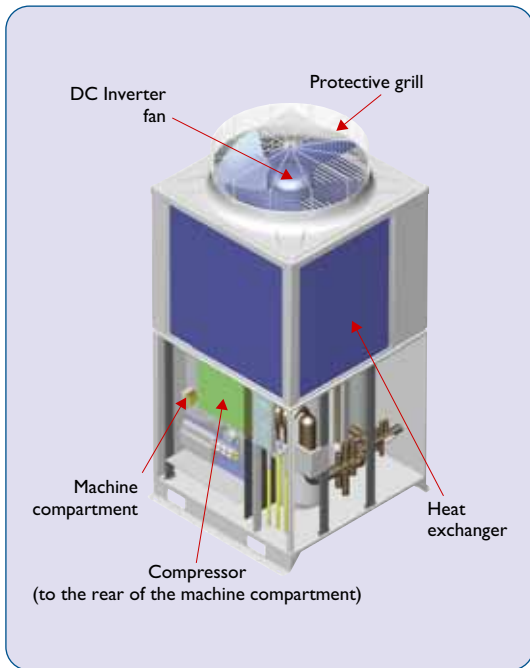
The **FLOW LOGIC 3i-410** range consists of 5 DC inverter outdoor units whose capacity varies from 8 HP to 16 HP. By combining up to three of these groups, it is possible to offer 21 configurations with a power of between 8 HP and 48 HP.

Group	Group 1 (8-16 HP)					Group 2 (18-26 HP)					Group 3 (28-48 HP)										
HP	8	10	12	14	16	18 (8+10)	20 (10+10)	22 (10+12)	24 (10+14)	26 (10+16)	28 (12+16)	30 (14+16)	32 (16+16)	34 (10+10+14)	36 (10+10+16)	38 (10+12+16)	40 (10+14+16)	42 (10+16+16)	44 (12+16+16)	46 (14+16+16)	48 (16+16+16)
Ref.	EFL 80-3R410	EFL 100-3R410	EFL 120-3R410	EFL 140-3R410	EFL 160-3R410	EFL 80-3R410 EFL 100-3R410	EFL 100-3R410 EFL 100-3R410	EFL 100-3R410 EFL 120-3R410	EFL 100-3R410 EFL 140-3R410	EFL 100-3R410 EFL 160-3R410	EFL 120-3R410 EFL 160-3R410	EFL 140-3R410 EFL 160-3R410	EFL 160-3R410 EFL 160-3R410	EFL 100-3R410 EFL 100-3R410 EFL 140-3R410	EFL 100-3R410 EFL 100-3R410 EFL 160-3R410	EFL 100-3R410 EFL 120-3R410 EFL 160-3R410	EFL 100-3R410 EFL 140-3R410 EFL 160-3R410	EFL 100-3R410 EFL 160-3R410 EFL 160-3R410	EFL 120-3R410 EFL 160-3R410 EFL 160-3R410	EFL 140-3R410 EFL 160-3R410 EFL 160-3R410	EFL 160-3R410 EFL 160-3R410 EFL 160-3R410
Oracle code	7SP141018	7SP141019	7SP141020	7SP141021	7SP141022	7SP141018 7SP141019	7SP141019 7SP141019	7SP141019 7SP141020	7SP141019 7SP141021	7SP141019 7SP141022	7SP141020 7SP141022	7SP141021 7SP141022	7SP141022 7SP141022	7SP141019 7SP141019 7SP141021	7SP141019 7SP141020 7SP141022	7SP141019 7SP141020 7SP141022	7SP141019 7SP141021 7SP141022	7SP141019 7SP141022 7SP141022	7SP141021 7SP141022 7SP141022	7SP141021 7SP141022 7SP141022	7SP141022 7SP141022 7SP141022

A range which allows simultaneous heating and cooling and heat recovery



THE TECHNOLOGICAL INNOVATIONS OF THE 3i-410 RANGE



❖ IDENTICALLY SIZED OUTDOOR UNITS

The 5 outdoor units which make up the **3i-410** range are of identical size, enabling the footprint to be rationalized.

❖ EFFICIENT PERFORMANCE

In addition to the inclusion of a DC Inverter fan which improves energy efficiency, a new generation of protective grills have also reduced power losses. These elements contribute to a significant improvement in the COP.

❖ HIGH PERFORMANCE (HIGH PRESSURE) COMPRESSOR SCROLL FOR THE CONSTANT SPEED COMPRESSOR

In comparison with traditional compressors, oil is stable, COP is improved and reliability reinforced.

❖ NEW GENERATION EXCHANGER

The increase in the exchange surface, the use of 7mm coiled diameter tubes and the drawing of air in 4 directions has enabled a significant improvement of the COP.

❖ OPTIMAL ORGANISATION OF COMPONENT LOCATION

Sound levels have been greatly reduced by locating the compressor in a specific box towards the bottom of the unit.

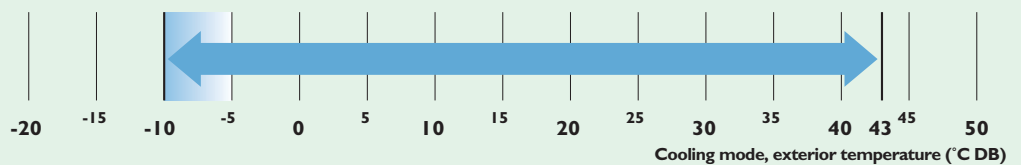
❖ POSSIBILITY OF SIDE-BY-SIDE INSTALLATION

The location of the fixing systems means that it is possible for outdoor units to be assembled side by side, 100mm apart for a significant reduction in footprint.

Extended Operating Range

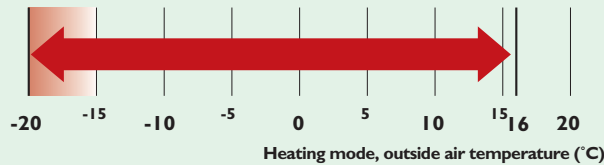
Cooling mode

The DC Inverter fan means operation extends to an outdoor temperature of **-10°C**.



Heating mode

Stable heating operation even with an outside air temperature of **-20°C**.



Operating range, indoor temperature:
16 - 30 °C

Minimal footprint

The 5 outdoor units of the **3i-410** range have the same outer dimensions thanks to the use of a casing with two compartments: the lower compartment is for the compressor and the components, the upper compartment for the exchanger. This means that the footprint is reduced and noise levels are low.

The advantages of the range

❖ BACK UP FUNCTION

system continues to operate even if one of the compressors fails.

❖ IMPORTANT TUBING LENGTHS

Length per circuit \geq **150 m**
Total length \geq **300 m**

❖ MAXIMUM NUMBER OF CONNECTABLE INDOOR UNITS

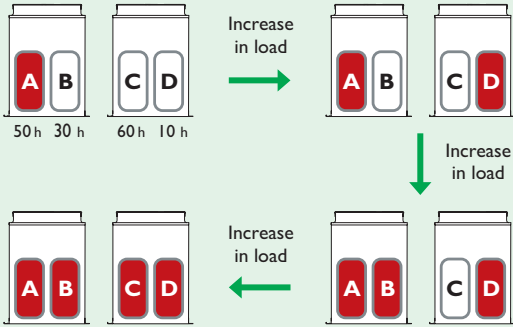
System (HP)	8	10	12	14	16	18	20	22	24~48
Connectable indoor units	13	16	19	23	26	29	33	36	40

FLOW LOGIC RANGE


Improvement in life span

The total operation time of the processors is monitored by a microcomputer, which makes it possible to standardise this time for each compressor in the system

EXAMPLE A, C : DC Inverter compressor
B, D : Constant speed compressor



Outdoor unit range

Group								
HP		8	10	12	14	16		
Reference		EFL 80-3R410	EFL 100-3R410	EFL 120-3R410	EFL 140-3R410	EFL 160-3R410		
Oracle code		7SP141018	7SP141019	7SP141020	7SP141021	7SP141022		
Cooling capacity	kW	22.4	28	33.5	40	45		
	BTU/h	76400	95500	114300	136500	153600		
EER		3.8	3.5	3.4	3.5	3.4		
Heating capacity	kW	25	31.5	37.5	45	50		
	BTU/h	85300	107500	128000	153600	170600		
COP		4.1	4	3.8	3.9	3.8		
Dimensions (H/W/D)	mm	1887x890x890						
Weight	kg	290	290	290	350	350		
Electrical rating	Cooling	Running amperes	A	10.9/5/9.2	13.7/13/12.6	16.6/15.7/15.2	20.1/19/18.3	23.2/21.8/21
		Power input	kW	5.93	8.12	9.82	11.6	13.3
	Heating	Running amperes	A	10.3/9.8/9.4	13.5/12.8/12.3	16.6/15.8/15.2	19.9/18.9/18.2	22.8/21.6/20.9
		Power input	kW	6.11	7.97	9.84	11.5	13.2
Air circulation	m ³ /min	150	160	180	200	220		
Refrigerant amount at shipment	kg	12	12	12	15	15		
Piping connection	Gas pipe	mm	19.05	22.22	25.4	25.4	28.58	
	Discharge pipe	mm	15.88	19.05	19.05	22.22	22.22	
	Liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	
	Balance pipe	mm	9.52	9.52	9.52	9.52	9.52	
Operating range								
Acoustic pressure	Normal mode	dB(A)	54.5	55	56	60	61	
	Silent mode	dB(A)	51.5	52	53	57	58	

Range of indoor units

Size	7	9	12	16	18	25
Power (cooling/heating in kW)	2.2/2.5	2.8/3.2	3.6/4.2	4.5/5	5.6/6.3	7.3/8
Wall mounted						
Oracle code	ST-NWFL 7 7SP022296	ST-NWFL 9 7SP022293	ST-NWFL 12 7SP022294	ST-NWFL 16 7SP022368	ST-NWFL 18 7SP022295	ST-NWFL 24 7SP022297
Ducted low static						
Oracle code	ST-NDLP 7 7SP032068	ST-NDLP 9 7SP032069	ST-NDLP 12 7SP032070	ST-NDLP 16 7SP032085	ST-NDLP 18 7SP032071	ST-NDLP 24 7SP032072
Ducted high static						
Oracle code						ST-NDHP 24 7SP051124
Accessory : RAP Valve kit NRAP-FL						7ACFH0418
4 way cassette						
Oracle code	ST-NKFL 7 7SP042137	ST-NKFL 9 7SP042138	ST-NKFL 12 7SP042139	ST-NKFL 16 7SP042169	ST-NKFL 18 7SP042140	ST-NKFL 24 7SP042141
Required option : GR ST NK7 60 facia	7ACVF0292	7ACVF0292	7ACVF0292	7ACVF0292	7ACVF0292	7ACVF0292
Option : Air intake plenum FAIP-NKFL 7-60	7ACVF0293	7ACVF0293	7ACVF0293	7ACVF0293	7ACVF0293	7ACVF0293
Option : Fresh air intake connector FAIB-NKFL 7-60	7ACVF0294	7ACVF0294	7ACVF0294	7ACVF0294	7ACVF0294	7ACVF0294
2 way cassette						
Oracle code	ST-NK2FL 7 7SP042149	ST-NK2FL 9 7SP042150	ST-NK2FL 12 7SP042151	ST-NK2FL 16 7SP042170	ST-NK2FL 18 7SP042152	ST-NK2FL 24 7SP042153
Required option : GR ST-K2(7-18) facia	7ACVF0169	7ACVF0169	7ACVF0169	7ACVF0169	7ACVF0169	
Required option : GR ST-K2(24) facia						7ACVF0170
1 way cassette						
Oracle code		ST-NKSFL 9 7SP042145	ST-NKSFL 12 7SP042146		ST-NKSFL 18 7SP042147	ST-NKSFL 24 7SP042148
Required option : GR ST-KSFL9-18 facia		7ACVF0167	7ACVF0167		7ACVF0167	
Required option : GR ST-KSFL 24 facia						7ACVF0168
Ceiling units						
Oracle code			ST-NPFL 12 7SP022298	ST-NPFL 16 7SP022369	ST-NPFL 18 7SP022299	ST-NPFL 24 7SP022300
Floor consoles						
Oracle code	ST-NFFL 7 7SP012123	ST-NFFL 9 7SP012124	ST-NFFL 12 7SP012125	ST-NFFL 16 7SP012128	ST-NFFL 18 7SP012126	ST-NFFL 24 7SP012127

Control devices

<p>Standard control device</p>  <p>NRCG-FL Oracle code : 7ACEL1307</p>	<p>Infra red control device for all units</p>  <p>RCIRC-FL Oracle code : 7ACEL1310</p>	<p>Infrared control device for NKFL</p>  <p>RCIRK-FL Oracle code : 7ACEL1308</p>	<p>Infrared control device for NKSFL, NK2FL</p>  <p>RCIRKS-FL Oracle code : 7ACEL1309</p>	<p>Infrared control device for NPFL</p>  <p>RCIRP-FL Oracle code : 7ACEL1311</p>	<p>Infrared control device for NWFL</p>  <p>RCIRW Oracle code : 7ACEL1312</p>	<p>Simple control device</p>  <p>NRCB-FL Oracle code : 7ACEL1315</p>
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18 (8+10)	20 (10+10)	22 (10+12)	24 (10+14)	26 (10+16)	28 (12+16)	30 (14+16)	32 (16+16)	34 (10+10+14)	36 (10+10+16)	38 (10+12+16)	40 (10+14+16)	42 (10+16+16)	44 (12+16+16)	46 (14+16+16)	48 (16+16+16)
EFL 80-3R410 EFL 100-3R410	EFL 100-3R410 EFL 100-3R410	EFL 100-3R410 EFL 120-3R410	EFL 100-3R410 EFL 140-3R410	EFL 100-3R410 EFL 160-3R410	EFL 120-3R410 EFL 160-3R410	EFL 140-3R410 EFL 160-3R410	EFL 160-3R410 EFL 160-3R410	EFL 100-3R410 EFL 100-3R410 EFL 140-3R410	EFL 100-3R410 EFL 100-3R410 EFL 160-3R410	EFL 100-3R410 EFL 120-3R410 EFL 160-3R410	EFL 100-3R410 EFL 140-3R410 EFL 160-3R410	EFL 100-3R410 EFL 160-3R410 EFL 160-3R410	EFL 120-3R410 EFL 160-3R410 EFL 160-3R410	EFL 140-3R410 EFL 160-3R410 EFL 160-3R410	EFL 160-3R410 EFL 160-3R410 EFL 160-3R410
7SP141018 7SP141019	7SP141019 7SP141019	7SP141019 7SP141020	7SP141019 7SP141021	7SP141019 7SP141022	7SP141020 7SP141022	7SP141021 7SP141022	7SP141022 7SP141022	7SP141019 7SP141019 7SP141021	7SP141019 7SP141019 7SP141022	7SP141019 7SP141020 7SP141022	7SP141019 7SP141021 7SP141022	7SP141019 7SP141022 7SP141022	7SP141020 7SP141022 7SP141022	7SP141021 7SP141022 7SP141022	7SP141022 7SP141022 7SP141022
50.4	56	61.5	68	73	78.5	85	90	96	101	107	113	118	124	130	135
172000	191100	219900	232000	249100	267900	290100	307100	327600	344700	363400	385600	402700	421400	443600	460700
3.6	3.5	3.4	3.5	3.4	3.4	3.4	3.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
56.5	63	69	76.5	81.5	87.5	95	100	108	113	119	127	132	138	145	150
192800	215000	235500	261100	278100	300300	324200	343000	368500	385600	407800	431700	450400	470900	494800	511900
4	4	3.9	3.9	3.8	3.8	3.9	3.8	3.9	3.9	3.8	3.9	3.8	3.8	3.8	3.8
1887x1880x890								1887x2870x890							
580	580	580	640	640	640	700	700	930	930	930	990	990	990	1050	1050
23.8/22.6/21.8	27.3/26/25	30.2/28.7/27.7	33.6/31.9/30.8	36.5/34.7/33.5	39.4/37.5/36.1	43/40.8/39.4	45.9/43.6/42.1	47.5/45.1/43.5	50.5/48/46.3	53/51/49	57/54/52	60/57/55	63/60/58	66/63/60	69/65/63
14.1	16.2	17.9	19.7	21.4	23.1	24.9	26.6	27.8	29.6	31.3	33	34.7	36.4	38.2	39.9
23.8/22.6/21.8	26.8/25.5/24.6	30/28.5/27.5	33.3/31.6/30.5	36.2/34.4/33.1	39.3/37.3/36	42.6/40.5/39	45.6/43.3/41.7	46.9/44.6/43	49.7/47.2/45.5	53/50/48	56/54/52	59/56/54	63/59/57	65/62/60	68/65/63
14.1	15.9	17.8	19.5	21.2	23	24.7	26.4	27.5	29.1	31	32.7	34.4	36.2	37.9	39.6
150+160	160+160	160+180	160+200	160+200	180+220	200+220	220+220	160+160+200	160+160+220	160+180+220	160+200+220	160+220+220	180+220+220	200+220+220	220+220+220
24	24	24	27	27	27	30	30	39	39	39	42	42	42	45	45
28.58	28.58	28.58	28.58	31.75	31.75	31.75	31.75	31.75	38.1	38.1	38.1	38.1	38.1	38.1	38.1
22.22	22.22	25.4	25.4	25.4	28.58	28.58	28.58	28.58	28.58	31.75	31.75	31.75	31.75	31.75	31.75
15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
Cooling : -10°C/+43°C Heating : -20°C/+15°C, Simultaneous operation : -10°C/+43°C															
58	58	58.5	61.5	62	62.5	63.5	64	62.5	63	63	64.5	64.5	65	65.5	66
55	55	55.5	58.5	59	59.5	60.5	61	59.5	60	60	61.5	61.5	62	62.5	63

36	48	60	76	96
10.6/11.4	14/16	16/18	22.4/25	28/31.5
ST-NDLP 36	ST-NDLP 48			
7SP032073	7SP032074			
ST-NDHP 36	ST-NDHP 48		ST-NDHP 76	ST-NDHP 96
7SP051125	7SP051126		7SP151127	7SP151128
7ACFH0418	7ACFH0418		7ACFH0418	7ACFH0418
ST-NKFL 36	ST-NKFL 48	ST-NKFL 60		
7SP042142	7SP042143	7SP042144		
7ACVF0292	7ACVF0292	7ACVF0292		
7ACVF0293	7ACVF0293	7ACVF0293		
7ACVF0294	7ACVF0294	7ACVF0294		
ST-NPFL 36	ST-NPFL 48			
7SP022301	7SP022302			

Wireless remote controller		Long life filter	High lift pump	Motorised louver	Automatic air sweep
Integrated receiver	Separate receiver				
✓	✓	✓			✓
	✓		✓		
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓		✓	✓
	✓	✓			

Schedule timer

NWTM-FL
Oracle code : 7ACEL1314

System controller

NRSC-FL
Oracle code : 7ACEL1313

Intelligent control device

IC-FL
Oracle code : 7ACEL1319

Communication Adapter

CM-FL
Oracle code : 7ACEL1317

I/O Seri-Para unit

SPIO-FL
Oracle code : 7ACEL1320

LonWorks interface

LON-FL
Oracle code : 7ACEL1321

Remote sensor

NSD
Oracle code : 7ACEL1316

FLOW LOGIC RANGE

Range of accessories

❖ DISTRIBUTION JOINT KITS

Indoor units		
NRF-DL 22 Oracle code : 7ACFH0434 Cooling capacity after connection less than 22.4 kW	NRF-D 2268 Oracle code : 7ACFH0435 Cooling capacity after connection between 22.4 and 68 kW	NRF-D 68135 Oracle code : 7ACFH0436 Cooling capacity after connection between 68 and 135 kW

Outdoor units	
NRF0-3DL68 Oracle code : 7ACFH0437 Cooling capacity after connection less than 68 kW	NRF0-3D68135 Oracle code : 7ACFH0438 Cooling capacity after connection between 68 and 135 kW

Comparative

- ❖ **FLOW LOGIC 3i-410** : outdoor unit of 10HP, 5 indoor units of 2HP
- ❖ **CLASSIC SYSTEM** : 5 outdoor units of 2HP, 5 indoor units of 2HP

CONFIGURATION	FLOW LOGIC 3i-410 systems (examples)		Comparison of FLOW LOGIC "i-410 and Classic System		Outdoor unit (load : HP)	
	Cold Load (HP) : Hot load (HP)	Total load of indoor units (HP)	System	Compressor capacity	Reclaimed capacity	Capacity required for equivalent performance
Cold only Cold load 10 HP Total load of indoor units 10 HP		Charge (%) 	10	10	100%	
Cold > Hot Cold load 4 HP > Hot load 2 HP Total load of indoor units 6 HP		Charge (%) 	4	2	67%	
Cold < Hot Cold load 2 HP < Hot load 8 HP Total load of indoor units 10 HP		Charge (%) 	8	6	80%	
Cold = Hot Cold load 4 HP = Hot load 4 HP Total load of indoor units 8 HP		Charge (%) 	4	0	50%	

** AC compressor: fixed speed compressor, DC : DC Inverter compressor

Range of accessories (cont)

SOLENOID VALVE KIT

NK3V 718

Oracle code : 7ACFH0439

For type
7 to 18
indoor units

NK3V 2548

Oracle code : 7ACFH0441

For type
25 to 48
indoor units



A valve must be installed for each independent indoor unit. for each valve kit.

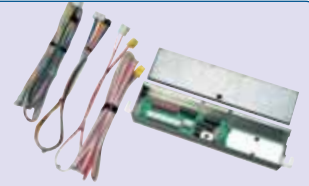
Note : if a type 76 or 96 ducted high pressure unit is used, two **NK3V 2548** solenoid valves must be installed in series.

SOLENOID VALVE CONTROL KIT

NK3V-FL

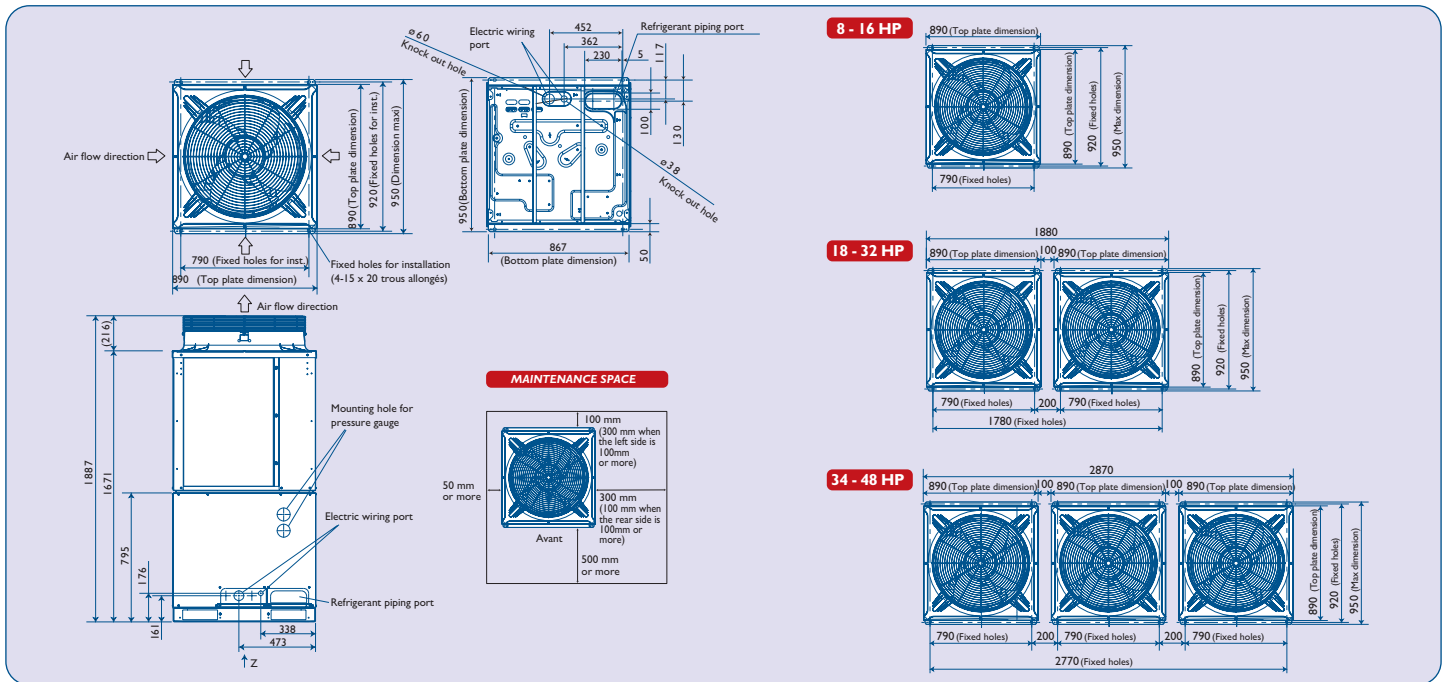
Oracle code : 7ACFH0417

This controls the RAP valve kit or the solenoid valve kit.

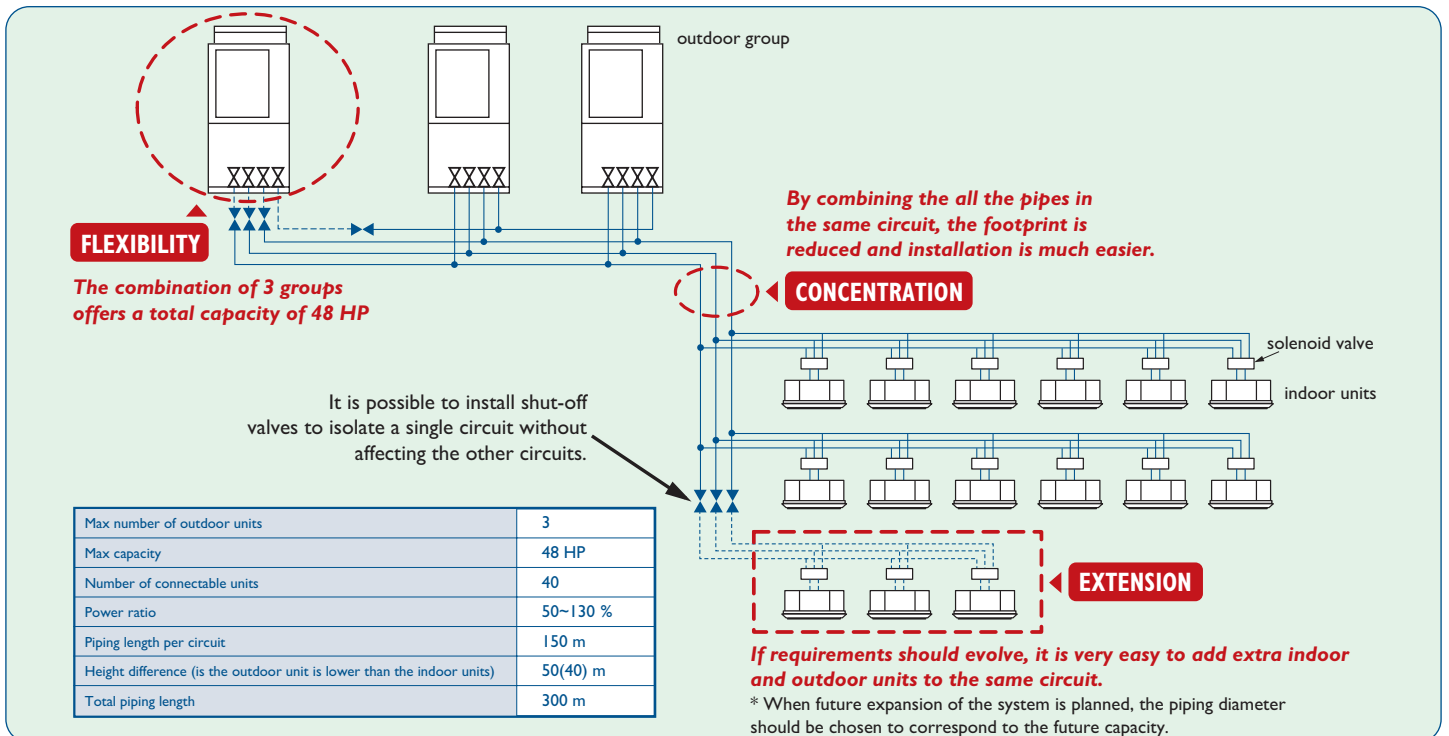


Attention : a control kit must be installed for each valve kit

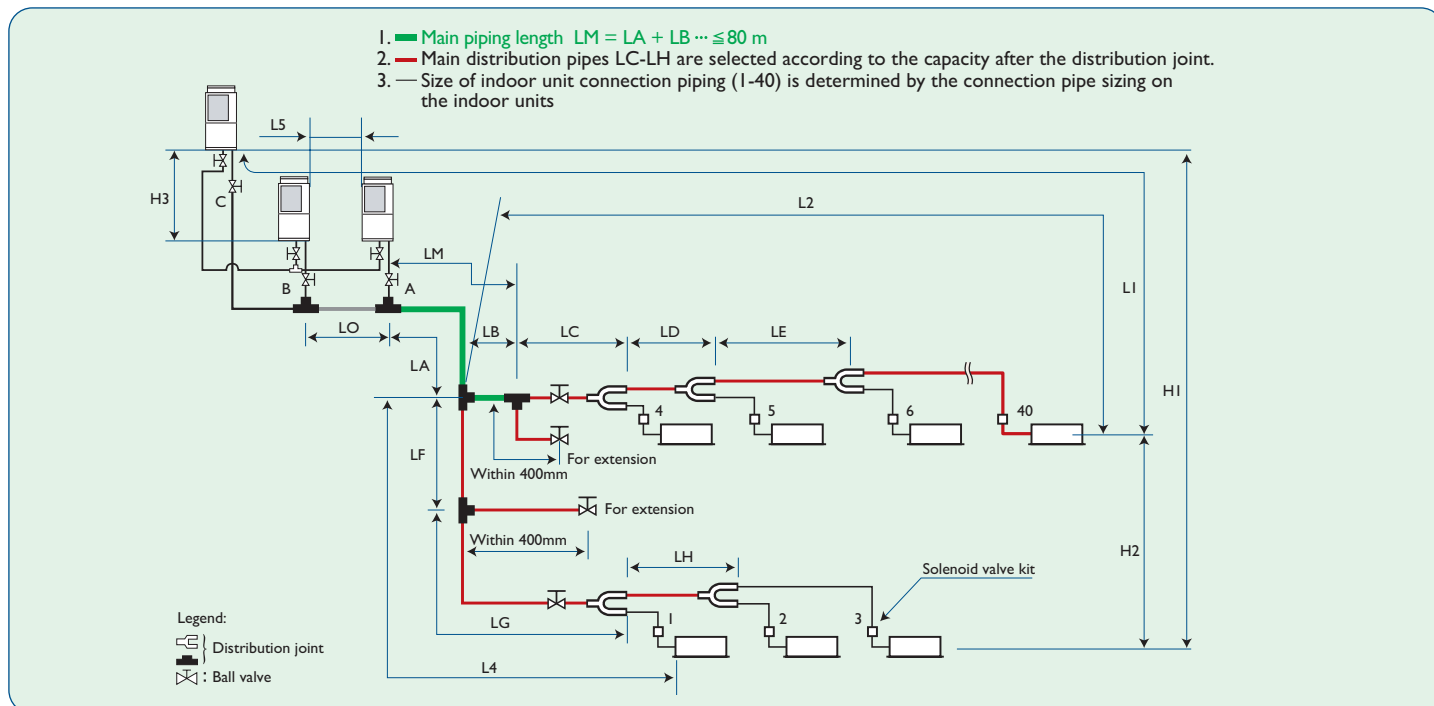
Dimensions



System example



Refrigerant piping



Tubing lengths and authorised height differences

Lengths	Marks	Contents	Lengths (m)
Allowable piping length	L1	Max piping length	Per circuit ≤ 150 Equivalent ≤ 175
	$\Delta L(L2-L4)$	Difference between the max. length and the min. length from the N°1 distribution joint	≤ 40
	LM	Max. Length of main piping	≤ 80
	1,2-40	Max length of each distribution	≤ 30
	$L1+1+2+\sim 40+A+B+LF+LG+LH$	Total max piping length	≤ 300
	L5	Max length between two outdoor units	≤ 10
Allowable height difference	H1	Outdoor unit installed higher than indoor unit	≤ 50
		Outdoor unit installed lower than indoor unit	≤ 40
	H2	Maximum difference between the indoor units	≤ 15
	H3	Maximum difference between the outdoor units	≤ 4

The size of the outdoor connection main piping (LO part) depends on the total capacity of the system
 When the main piping length (L1) equivalent length exceeds 90m in equivalent length, increase the size of the gas and liquid main piping (LM)

System limitations

Max. number of combined outdoor units	3
Max HP of combined outdoor units	135 kW (48 CV)
Max. number of connectable indoor units	40
Indoor/Outdoor unit capacity ratio	50-130 %

Additional refrigerant charge

Liquid piping size	Refrigerant charge (g/m)
≥ 6.35	26
≥ 9.52	56
≥ 12.7	128
≥ 15.88	185
≥ 19.05	259
≥ 22.22	366

Conversion table

mm	Inches
6.35	1/4
9.52	3/8
12.70	1/2
15.88	5/8
19.05	3/4
22.22	7/8
25.40	1
28.58	1 1/8
31.75	1 1/4
38.10	1 1/2

Main pipe sizes (LA)

HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
Combination	8	10	12	14	16	10 8	10 10	12 10	14 10	16 10	16 12	16 14	16 16	14 10	16 10	16 10	16 12	16 14	16 16	16 12	16 14	16 16
Gas pipe (≥ mm)	19.05	22.22	25.40		28.58				31.75				38.10									
Discharge pipe (≥ mm)	15.88	19.05		22.22				25.40				28.58				31.75						
Liquid pipe (≥ mm)	9.52		12.70				15.88				19.05											

NOTE 1 : When future expansion is planned, select a diameter which taken into account the total HP after expansion.

NOTE 2 : The balance piping diameter is 9.52mm.

NOTE 3 : Max length for the main pipe (LM) : when the length exceeds 50m the size of the gas pipe and HP gas pipe [suction pipe and discharge pipe] should be increased by one size.

Main piping size between outdoor units (LO)

Select the piping size between outdoor units according to the main pipe size (LA) of the above table.

Main piping size after distribution (LB, LC, ...)

Total capacity after connection	Before (kW)	7.1	16.0	26.2	30.0	36.4	42.0	47.6	58.8	70.0	75.6	98.0	103.6	-
	After (kW)	-	7.1	16.0	26.2	30.0	36.4	42.0	47.6	58.8	70.0	75.6	98.0	103.6
Piping size	Gas pipe (≥ mm)	15.88	19.05	19.05	22.22	25.40	25.40	28.58	28.58	28.58	31.75	31.75	38.10	38.10
	Discharge pipe (≥ mm)	12.70	15.88	15.88	19.05	19.05	22.22	22.22	22.22	25.40	25.40	28.58	28.58	31.75
	Liquid pipe (≥ mm)	9.52	9.52	9.52	9.52	12.70	12.70	12.70	15.88	15.88	19.05	19.05	19.05	19.05

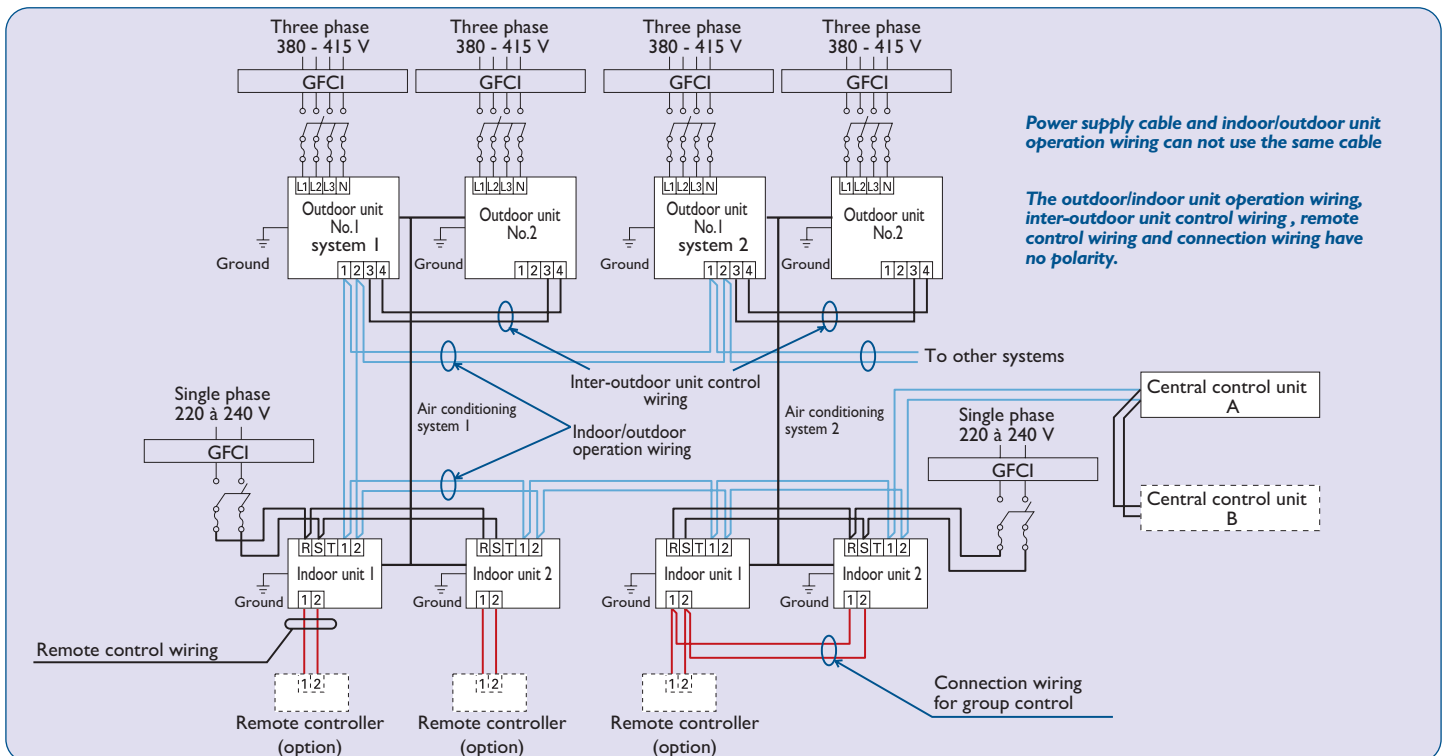
NOTE 1 : The outdoor unit connection main pipe (LO part) depends on the total capacity of the system.

NOTE 2 : If the total capacity of the indoor units differs from the total capacity of the outdoor units, select the main pipe size according to the total capacity of the outdoor units.

Indoor unit connection piping (1 – 40)

Indoor unit type	7	9	12	16	18	25	36	48	60	76	96		
Equivalent HP	0.8	1	1.3	1.6	2	2.5	4	5	6	8	10		
Piping between distribution and solenoid valve kit	Gas pipe (≥ mm)	15.88						19.05		22.22			
	Discharge pipe (≥ mm)	12.70						15.88		19.05			
	Liquid pipe (≥ mm)	9.52											
Piping between solenoid valve kit and indoor unit	Gas pipe (≥ mm)	12.70				15.88				19.05		22.22	
	Liquid pipe (≥ mm)	9.52											

Wiring



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