

Clean Room Air Conditioner



RHDX Series

High Performance & Reliable



SHOPPING
CENTERS



OFFICES



HOTELS



INDUSTRIES



HOSPITALS



BROADCASTINGS



AIRPORT
TERMINALS



TRANSPORTATIONS

Features

This innovative unit used the best concept of cooling and dehumidifying system with hot gas bypass. It would be an equipment that is reliable to be operated to meet indoor sensible and latent load requirements.

This product dedicated to be applied in special room requirements (temperature and humidity control), e.g. server room, surgery room, archive room, laboratory, telecommunication facility, museum, control center, IC chip product area, area of graphics and printing machine, and other space office room that using high-tech facility.

Standard Features

INDOOR UNIT AND PARTS



How It Works

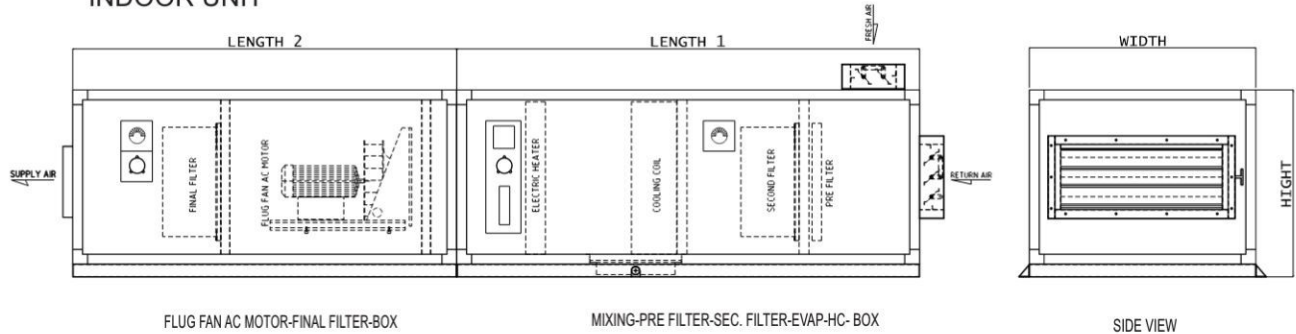
In this schematic, the refrigerant flow at the compressor exit splits into two streams, with one of them completing the conventional path through the condenser and the other rerouted around the condenser coil. Both refrigerant streams rejoin at the condenser exit, forming a two-phase mixture. As in the warm liquid dehumidification concept, the refrigerant subsequently enters the reheat coil, but in an entirely different two-phase state, where it is further condensed and then subcooled. As before, during this heat transfer interaction the airstream exiting the evaporator is reheated.

Technical Data

Models					RHDX - S - 100	RHDX - S - 125	RHDX - S - 150A	RHDX - S - 150B	RHDX - S - 175	RHDX - S - 200						
Surgery Room Dimension					6 x 6 x 3 (m)	6 x 7 x 3 (m)	7,2 x 7 x 3 (m)	8 x 7 x 3 (m)	9 x 7 x 3 (m)	9 x 8 x 3 (m)						
Air Systems					Return Air 80 % and Fresh Air 20 %					Return Air 80 % and Fresh Air 20 %						
Air Change per Hour (ACH)					25~30 x / hour					25~30 x / hour						
Room Temperature and Humidity					Range 20 ~ 24 C / Range 50 ~ 60 %					Range 20 ~ 24 C / Range 50 ~ 60 %						
Room Pressure Differential					Positive Pressure (Range +5 Pa ~ +15 Pa)					Positive Pressure (Range +5 Pa ~ +15 Pa)						
Nominal Cooling Capacity					BTU/H	100,000	125,000	150,000	150,000	175,000	200,000					
					kW	29.3	36.6	44.0	44.0	51.3	44.0					
					TR	8.3	10.4	12.5	12.5	14.6	12.5					
					Kcal/h	25,100	31,375	37,650	37,650	44,099	37,650					
Nominal Heating Capacity					BTU/H	20,472	25,590	34,120	34,120	50,000	60,000					
					kW	6	7.5	10	10	14.6	17.5					
Refrigerant					R-407 C					R-407 C						
Air Flow					CMH	3240	3780	4536	5040	5670	6480					
					CFM	1910	2250	2670	2965	3355	3812					
INDOOR UNIT					Blower		Fan Type		Plug Fan AC Motor / Centrifugal Backward + Variable Speed Drive (Optional)			Plug Fan AC Motor / Centrifugal Backward + Variable Speed Drive (Optional)				
							Total Static Pressure		Pascal	1250	1250	1250	1250	1250	1250	
									kW/POLE	2,2 / 2	2,2 / 2	2,2 / 2	3 / 2	3 / 2	4 / 2	
									Ampere	3,18	3,18	6,06	6,06	7,36	7,36	
									Power Supply	V/ph/Hz	380 - 400 / 3 / 50	380 - 400 / 3 / 50	380 - 400 / 3 / 50	380 - 400 / 3 / 50	380 - 400 / 3 / 50	380 - 400 / 3 / 50
					Cooling		Copper Tube Diamater		Inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	
							Aluminium Fin		Row	6 ~ 8	6 ~ 8	6 ~ 8	6 ~ 8	6 ~ 8	6 ~ 8	
									FPI	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	
					Heating Coil		Heating System		Electric Heater/Heating Coil / Hot Gas (Refrigerant) Bypass			Electric Heater/Heating Coil / Hot Gas (Refrigerant) Bypass				
							Copper Tube Diamater		Inch	3/8" or 1/2"	3/8" or 1/2"	3/8" or 1/2"	3/8" or 1/2"	3/8" or 1/2"	3/8" or 1/2"	
							Aluminium Fin		Row	2	2	2	2	2	2	
									FPI	12	12	12	12	12	12	
					Pre Cooling Coil (Optional)		Copper Tube Diamater		Inch	3/8" or 1/2"	3/8" or 1/2"	3/8" or 1/2"	3/8" or 1/2"	3/8" or 1/2"	3/8" or 1/2"	
							Aluminium Fin		Row	2	2	2	2	2	2	
									FPI	12	12	12	12	12	12	
					Air Filter		Pre Filter		G4 Washable Filter			G4 Washable Filter				
							Second Filter		F5 - Bag / Medium Filter			F5 - Bag / Medium Filter				
							Final Filter		F8 Medium Filter			F8 Medium Filter				
					Mixing Box Section		Optional			Optional			Optional			
					OUTDOOR UNIT					Compressor		Type		Hermetic Scroll Compressor		
Power Supply		V/ph/Hz	380-400 / 3 / 50	380-400 / 3 / 50								380-400 / 3 / 50	380-400 / 3 / 50	380-400 / 3 / 50	380-400 / 3 / 50	
Power Input		kW	8.96	10.81								13.6	13.6	6,95 + 8,96	8,96 + 8,96	
RLA		Ampere	16.4	21.6								24	24	12,9 + 16,4	16,5 + 16,4	
LRA		Ampere	118	140								174	174	95 + 118	140 + 140	
Fan Condenser		Fan Type / Drive		Compact Axial Fan / Direct Drive						Compact Axial Fan / Direct Drive						
		Diamater		mm						630	630	630	630	630	630	
		Qty		pcs						1	1	2	2	2	2	
		Power Supply		V/ph/Hz						380 / 3 / 50	380 / 3 / 50	380 / 3 / 50	380 / 3 / 50	380 / 3 / 50	380 / 3 / 50	
		Power Input		Watt						800	800	1600	1600	1600	1600	
Condenser Coil		RLA		Ampere						1.6	1.6	2 x 1.6	2 x 1.6	2 x 1.6	2 x 1.6	
		Copper Tube Diameter		Inch						3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	
		Aluminium Fin		Row						2	2	2	2	2	2	
				Fin per Inch						14	14	14	14	14	14	
Piping		Face Area		ft2						17	21	33	33	17 + 17	17 + 17	
		Pipe Size Units		Liquid						Inch	5/8"	5/8"	5/8"	5/8"	2 x 5/8"	2 x 5/8"
				Suction						Inch	1.1/8"	1.1/8"	1.1/8"	1.1/8"	2 x 1.1/8"	2 x 1.1/8"
		Rehaet	Inlet/Outlet	Inch						5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	
Weight AHU (Kg)										480	620	680	680	720	785	
Connection					Brazing Connection			Brazing Connection								
Control System					Temperature Control		Room Temperature Sensor and Temperature Display			Room Temperature Sensor and Temperature Display						
					Humidity Control		Room Humidity Sensor and Humidity Display			Room Humidity Sensor and Humidity Display						
					Motor Blower Speed Control		Variable Speed Drive Control			Variable Speed Drive Control						
					Heating System Control / Hot Gas Flow Control		Solenoid Valve Control			Solenoid Valve Control						
					Pressure Indicator		Medium Filter		Magnahelic 0 ~ 500 Pascal			Magnahelic 0 ~ 500 Pascal				
							Room Pressure		Magnahelic -30 ~ +30 Pascal			Magnahelic -30 ~ +30 Pascal				

AHU Split Type

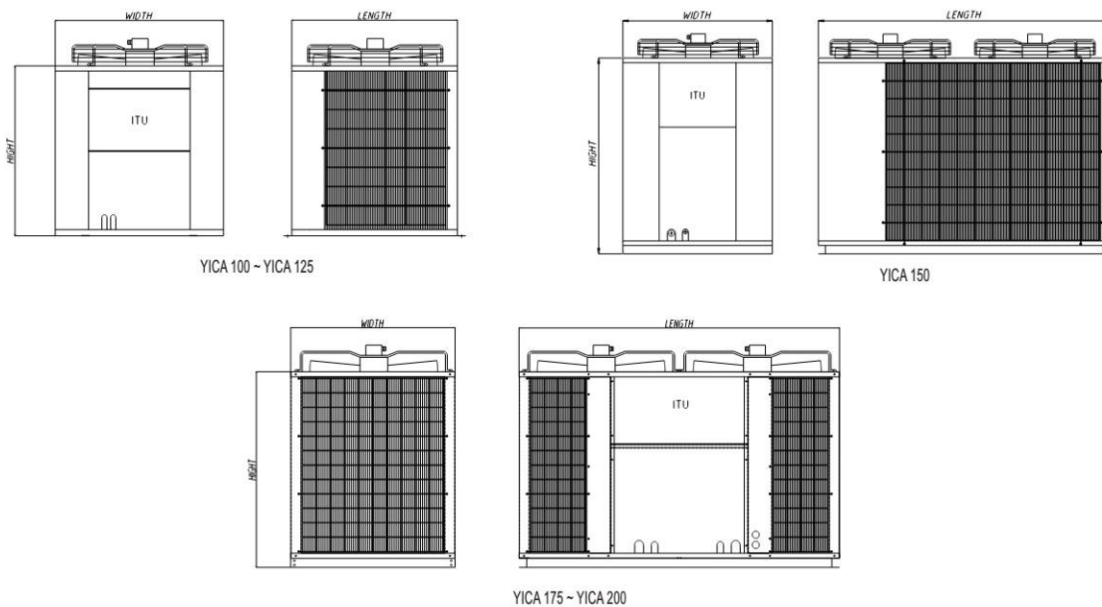
INDOOR UNIT



DIMENSI INDOOR UNIT

MODEL		RDHX-S-100	RHDX-S-125	RHDX-S-150A	RHDX-S-150B	RHDX-S-175	RHDX-S-200
WIDTH	MM	1150	1150	1350	1350	1350	1350
LENGTH 1	MM	2350	2350	2350	2350	2350	2350
LENGTH 2	MM	1950	1950	1950	1950	1950	1950
HIGHT	MM	950	950	950	950	950	950
WEIGHT	KG	480	620	680	680	720	780

OUTDOOR UNIT

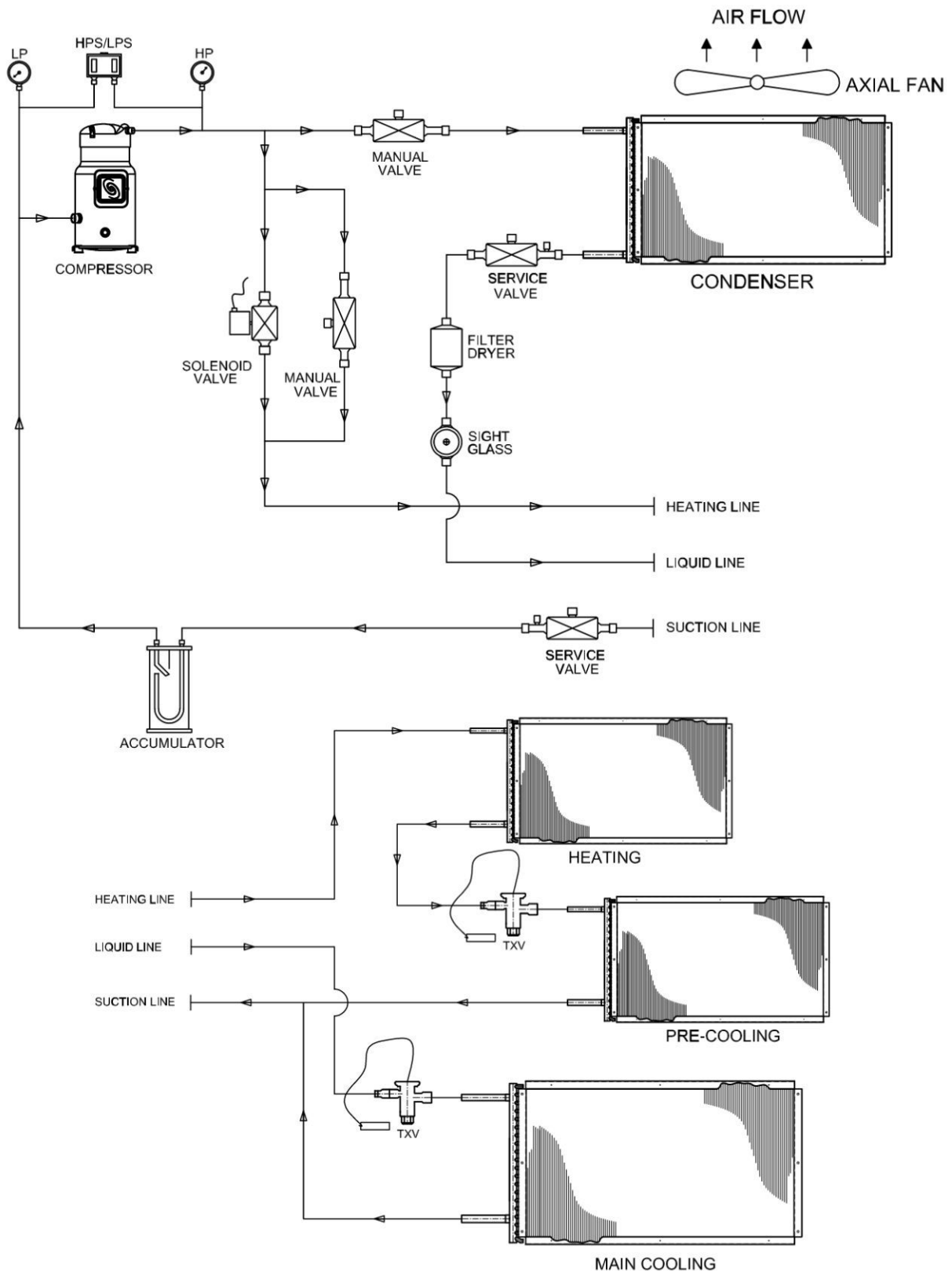


DIMENSI OUTDOO UNIT

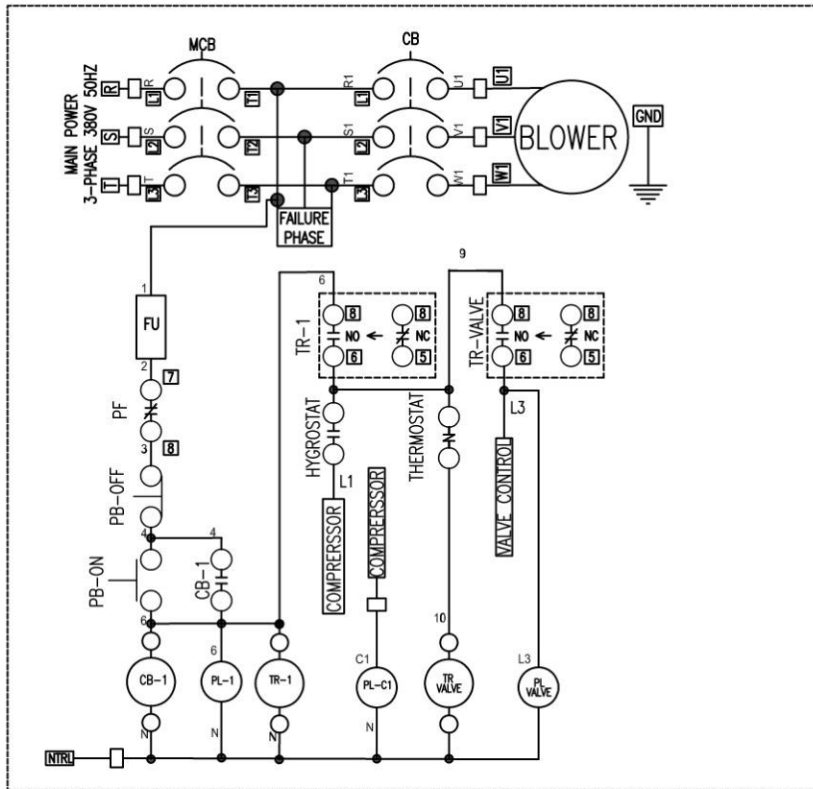
MODEL		YICA 100	YICA 125	YICA 150	YICA 175	YICA 200
WIDTH	MM	815	815	815	815	815
LENGTH	MM	800	800	1850	1580	1580
HIGHT	MM	820	1020	1020	965	965
WEIGHT	KG	137	150	170	250	270

This system is better than typical conventional hot gas or electric heater for reheat system, because it can more effectively control both temperature (down to 22 ± 1) and humidity (down to 55 ± 5). It also has an ability to operate without any restrictions on the unit's normal CFM range.

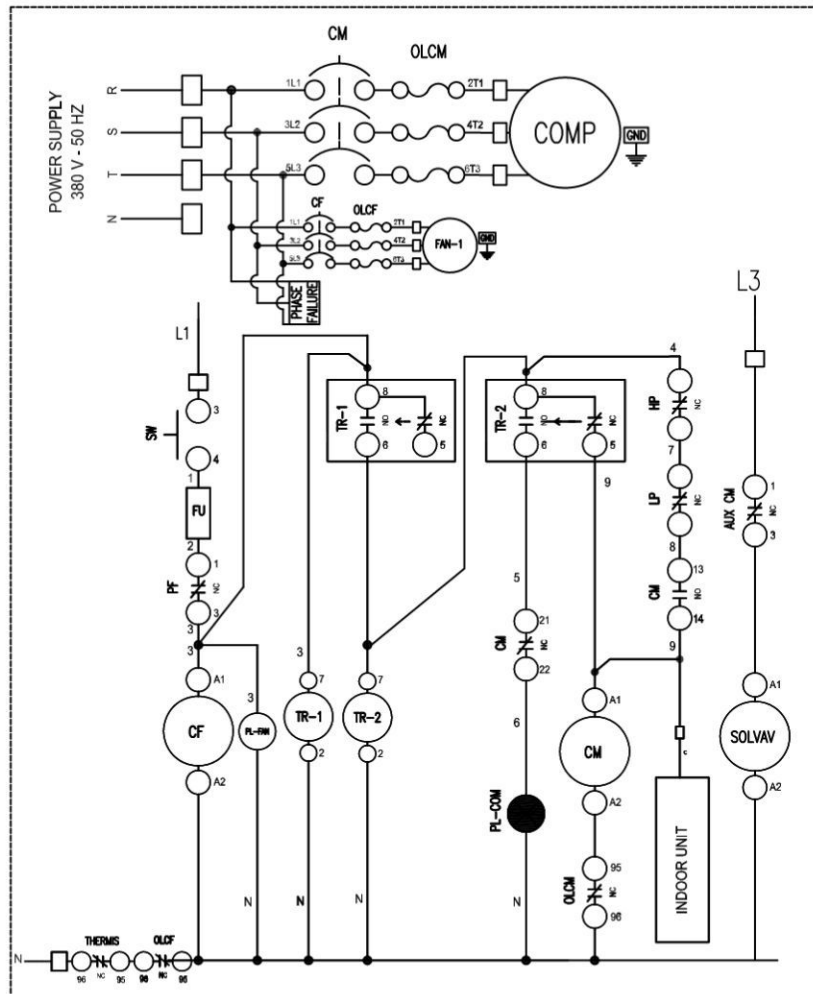
HOT GAS PIPING INSTALLATION SCHEMATIC



WIRING SCHEMATIC



Indoor Unit



Outdoor Unit



OFFICES

Balai kota Gedung G
Bank Of Indonesia
Bank CIMB Niaga
Cyber Kuningan
GMF Cengkareng
Indah Klat
Indonesia Power
Indosat
Kantor Walikota: Pusat, Timur, Barat
Lion Air
Menara BATAVIA
Menara Global
Menara Karya
Menara Mandiri Surabaya
Menara Multi
Ministry Of Health
Ministry Of Home Affairs
Ministry Of Industry
Ministry Of Justice & Human Rights
Ministry Of Maritime & Fisheries Affairs
Ministry Of Trade
Parliament
Pertamina
Puspitak
Sampurna Strategic Square
Selatan & Utara
Senayan Office Tower
Thamrin Tower
Trust Radiator Specialist
Wisma Indocement
Wisma Pondok Indah
Wisma Slipi

SHOPPING CENTERS

Atrium Mulia
Bintaro Life Style
Boarding Lounge Soetta
Carrefour
Carrefour Cawang
Carrefour Cempaka Putih
Carrefour Imam Bonjol
Carrefour Maguwo
Carrefour Pabelan
Ciputra Mall Citra Raya
Ciputra World Jakarta
Ciputra World Surabaya
Eco Plaza
Futami Food
Giant Hypermarket
Graze Mall Cirebon
Grand City Mall
Grand Metropolitan Mall
ITC Surabaya
Kalibata Mall
King Shopping Center
Kirana
KKCC Krampung
Malang Town Square
Mall Bogor
Mall Emporium
Mall Kalibata
Mall Karawaci
Mall Mangga Dua
Mall Margo City
Mall Pondok Gede
Pusat Grosir Cililitan

Mall Puri Indah
Mall Taman Anggrek
Mall Tasik
Matahari Department Store
Mega Mas
Metropolitan Mall
Mitra 10
Plaza Senayan
Pondok Indah Mall
Senen Blok 3
Ubertos Bandung

HOTELS

Borobudur
Four Season
Grand Hyatt
Grand Kuningan
Green Tebet
Horison
Ibis
Jayakarta
Maharaja
Maharani
Majapahit
Mandarin
Mercure
Mirah Bogor
Mulia
Mustika
Nelayan
Nikko Bali
Novotel
PHI Heritage
Pondok Indah
Quest Surabaya
Sahid
Sari Pan Pasific
Sentral
Sintesa Peninsula
Sultan
Western

HOSPITALS

RSUD Ambon
RS Anak Bunda
RS Awal Bross
RS Budi Asih
RS Cipto Mangunkusumo
RS Fatmawati
RS Islam Surabaya
RS Jantung Harapan Kita
RS Kanker Dharmas
RS Mayapada
RS Pasar Rebo
RS PELNI
RS Persada Malang
RS Pertamina Pusat
RS Pondok Indah
RS Premier
RS Sari Asih
RS Siloam Gleanegle
RS Siloam Kb Jeruk
RS Sulianti Saroso
RSUD Kebumen
RSUD Purwokerto

INDUSTRIES

ABC
Aqua
Bekaert Indonesia
Bintang Toedjoe
Calbee Wings Food
Capsugel
Charoen Phokpan
Denso
Djarum
Enseval
Essai
Fanbo
Holcim Cement
Nine Cocoa
Orang Tua Group
Pabrik Kara Batam
Prestine
Pupuk Kaltim
Sanbe Farma
Semen Gresik
Sinde Budi Sentosa
STTC
Tirtamas Perkasa
Unilever
Indorama
Mercy Farma

OTHERS

AIRPORT TERMINAL
Soekarno-Hatta Terminal I, II, III
Juanda Surabaya
Ngurah Rai Denpasar
Iskandar Muda Aceh

MOBILE AIR CONDITIONING
Kereta Api Indonesia
Pelangi Bravo - CONOCO OIL

OFFSHORE
RIG Platform (Pertamina)

POWER PLANT
PLTU Paiton
PLTU Hyundai

RESTAURANTS
McDonald
Pizza Hut Indonesia
Sand Executive Rest
Starbuck

TV BROADCAST
TVRI
RCTI
SCTV
TV NET
TV ONE
METRO TV
INDO SIAR
TRANS TV



PT ITU AIRCONCO
Air Conditioner Manufacturer
Quality-Reliability-Speed

Head Office & Factory

Jl. Raya Serang KM 12, Sukadamai, Cikupa, Tangerang 15710
P : +62 21 5960673-75 +62 21 5962210
F : +62 21 5963250
E : factory@ituaircon.co.id

Distributor : PT. CILIKON TATAUDARA INDONESIA

Jalan Bintara Raya, Ruko Bintara Permai Blok D No. 3-4 Bintara Jaya - Bekasi Barat Kota Bekasi 17136
Telp. (021) 8895 0444 / 8895 0443 Email : info@chilicond.com Website : www.chilicond.com