

COGEN™ SYSTEMS



5 Ref-Ton/hr Chiller Air Conditioning.

Gas & LPG Fired Mini Air Conditioning Chiller ROBUR® links, for outdoor installation, for the production of cold water down to 3 °C.Reduces electricity needs by up to 86%.
Address: 111-A/2,3rd. Street,Phase-6,Kh-e-Muhafiz,DHA,Karachi-75500,Pakistan,, Ph-0092-21-35340068. 35340071. Mob-009221-8287009 E-



5 REF TON/HR GAS FIRED LIQUID ABSORPTION CHILLER USE NATURAL GAS OR LPG AT HOME OFFICES INDUSTRIES

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QUOT + TECH SPECS + POPULATION FOR
5 REF TON GAS-LPG FIRED
AQUA -AMMONIA CHILLER
FOR - AIR CONDITIONING

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PLEASE FIND ATTACHED
THE TECH SPECS
AND QUOT FOR THE PROPOSED
5 REF TON/HR

GAS & LPG FIRED AIR CONDITIONING CHILLER

GAS REQUIRED= 2.77 M3/HR. GAS RATE @ =17 RS/NM3.

GAS COST OF 5 REF TON/HR A/C = 47 RS/HR. @ RS.9.40 RS/H/RT

KESC COST USING ELECTRIC = 78 RS/H @ 15.60 RS/H/RT

COST SAVING PER HR= 15.6-9.40 = 6.20 RS/HR

MONTHLY COST SAVING = 720 x 6.2 = 4464 RS/MONTH

INVESTMENT 8,50,000/- SYSTEM LIFE =20 YRS = 42500 RS/YR

INVESTMENT PAYBACK = 42500/4464 = 10 MONTHS MAINTENANCE FREE

USING LOCAL KITCHEN SIZE YELLOW FLEX PIPE GAS - 24 HRS for 20 YEARS

NO FREON GAS LEAK-NO CONDENSOR FAIL-NO NOISE- MOST RELIABLE-

NOISELESS OPERATION

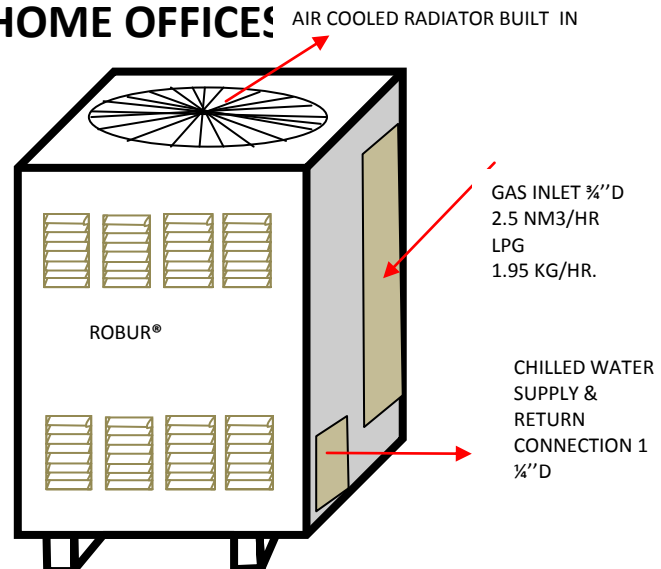
THANKS N REGARDS

ENGR KHALID SAEED

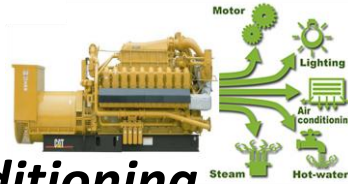
COGEN SYSTEMS
KARACHI PAKISTAN

Engr. S.R. MEGHANI

ELECTRO INTERNATION
ROBUR ITALY



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ROBUR S.p.A. - via Parigi, 4/6 - 24040 Verdellino/Zingonia (BG) ITALY - Telefono 035/888.111 - Telefax 035/884.165 - www.robur.it - e-mail: robur@robur.it
 Capitale Sociale Eur 2.028.000,00 i.v. – Iscritta al Registro Imprese di Bergamo al n. 154968 – C.Fisc. e P.IVA 00373210160 - V.A.T. Code IT 00373210160

Società soggetta all'attività di Direzione e Coordinamento di Fin Robur S.a.p.A. di Benito Guerra & C.

Anoud Group of Co.(Anoud Power/Textile)

Local Dealer: Electro International

Korangi Industrial Area
 KARACHI 74900 PAK

4TH FLOOR, ROCK COURT
 ABDULLAH HAROON ROAD,KHI

PROFORMA INVOICE

9/7/2012

CODE	DESCRIPTION	Q.TY	UNIT NET PRICE	TOTAL NET PRICE
	ACF60 HT	1	5,214	5,214
	Wooden case for group age shipment (thermally treated under ISPM15 Norm)	1	120	120
	TRANSPORT by sea CFR Karachi Old Port	1	690	690.00
TOTAL AMOUNT EX-WORKS			EUROS	6,024.00

Validity: 60 days

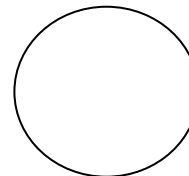
DELIVERY: CFR Karachi Old port

DELIVERY

DATE: 3 working weeks from order confirmation , after getting your payment

PAYMENT: IN ADVANCE, BY WIRE TRANSFER on:

CREDITO BERGAMASCO
 AGENZIA DI VERDELLINO
 SWIFT CODE CREDIT 21070
 ACCOUNT NO 2870
 IBAN CODE: IT08 Y 03336 53690 000000002870



**ELECTRO
 INTERNAZIONALE
 L
 S.R.MEGHANI
 MANAGER**

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GENERAL TERMS & CONDITIONS ACF-60 HT

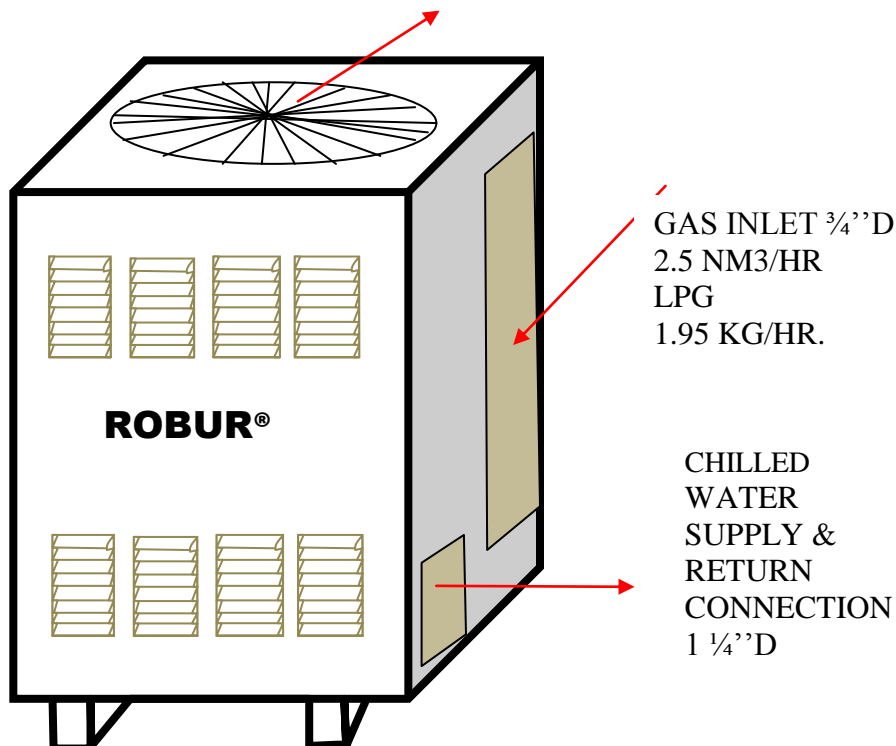
1 NOT INCLUDED

- 1 LOCAL INSTALLTION MATERIAL APPROOX 2,50,000/- AT ACTUAL BY CLI
- 2 SYSTEMS DESIGN & FAN COIL UNITS SELECTED BY CLIENT HIMSELF
- 3 LOCAL INSTALLTION LABOUR AT ACTUAL DIRECTLY PAID BY CLIENT
- 4 LOCAL INSTALLTION SUPERVISION BY COGEN SYSTEMS +ELECTRICO
- 5 LOCAL INSTALLED TESTING COMMISSIONING BY COGEN SYSTEMS
- 5 ELCETRO
- 6 AIR HANDLING UNITS TO BE ARRANGED BY THE CLIENT CHILLED WATER BASED
- 7 CHILER WATER CIRCULATION PUMPS AND EXPANSION MAKEUP TANK TO BE ARRANGE
- 8 BY CLIENT ,DESIGN BY COGEN CONSULTANT AS PER ELECTRO INTERNATIONAL GUIDANCE
- 9 LOCAL INSTALLTION CONTRACT SHALL BE AWARDED DIRECTLY TO THE ELECTRO INTER.

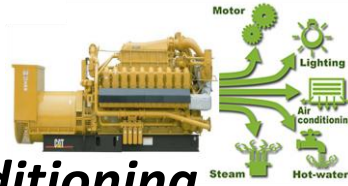
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DIMENSIONS L X W H 3 x 4 x 5 FT
WEIGHT APPROX = 360 KG

AIR COOLED RADIATOR BUILT IN

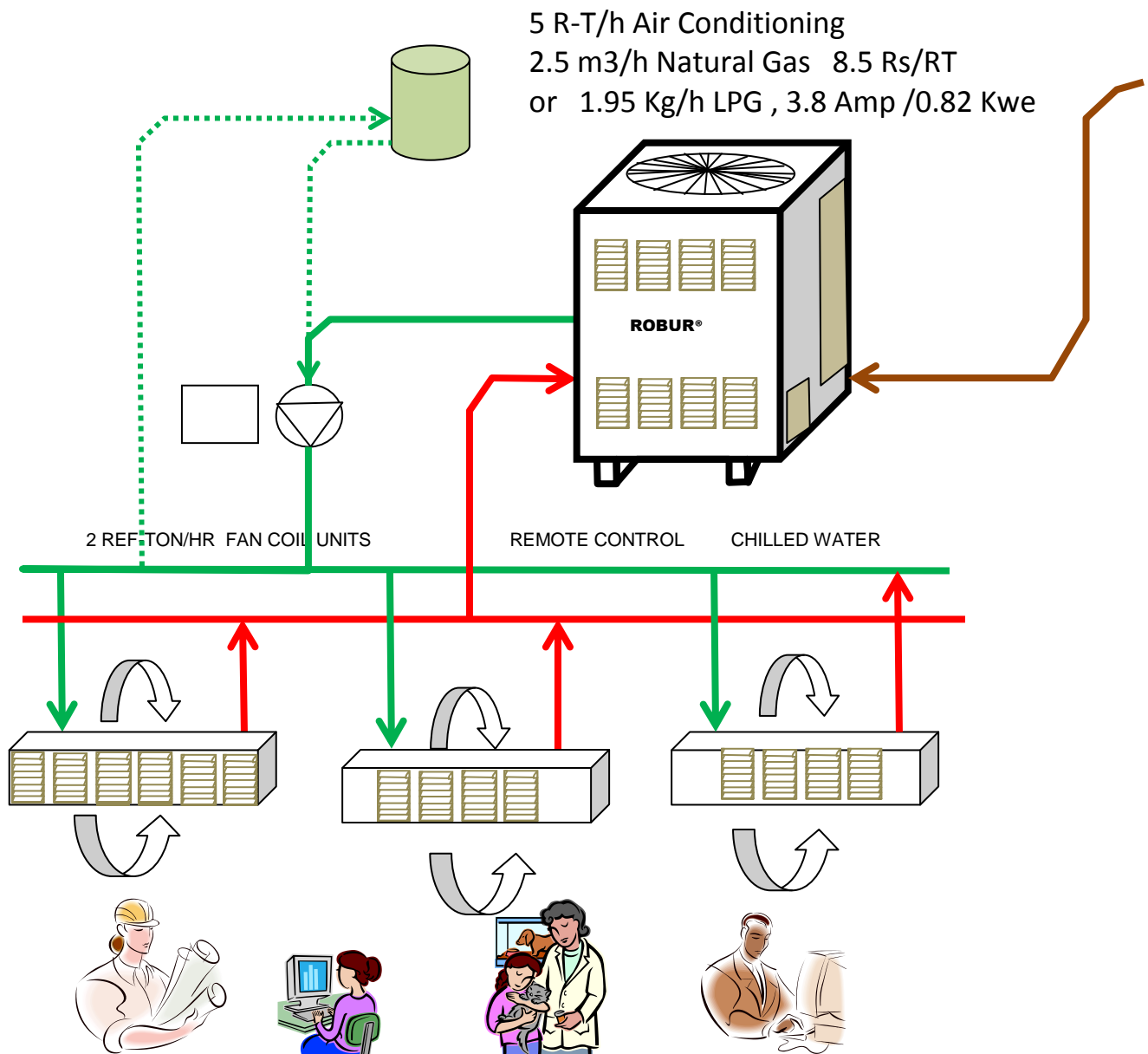


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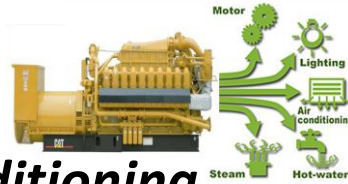
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5 RT ROBUR ABSORPT CHILLER DOMESTIC SIZE ECONOMICAL LONG LIFE –GAS FIRED

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ROBUR - PROPERTIES	ROBUR - PROPERTIES
<p><u>Advantages</u> Extremely low electricity consumption: saving up to 86% of electricity compared with a traditional electrical system, thus requiring neither additional energy nor upgrading or modification of the electrical cabin.</p> <ul style="list-style-type: none"> • Independent and modular, it ensures constant performance for air conditioning only as and when needed. • Thanks to the use of an almost static refrigeration cycle, the performance levels remain unchanged over time and regular refill and disposal of refrigerant is not required. <p><u>TK Version applications</u></p> <ul style="list-style-type: none"> • Cooling in industrial process applications. • Cooling of controlled temperature rooms throughout the year (data reading rooms, computer rooms, laboratories). • Cooling of rooms with high heat gains that require cooling even during cold seasons. • Cooling in greenhouses for the intensive cultivation of mushrooms. • Cooling in rooms used for medium/long-term maturing of cheese. 	<p><u>HT Version applications</u></p> <ul style="list-style-type: none"> • Cooling of residential, commercial and industrial environments with an external air temperature up to 50 °C. <p><u>LB Version applications</u></p> <ul style="list-style-type: none"> • Refrigeration of low temperature environments for the food industries, where it is necessary to maintain temperatures inside the room in compliance with health and hygiene regulations. • Refrigeration of cold rooms and counters for food preservation. • Process refrigeration in systems requiring negative fluid temperatures. • Ice storage systems, for the storage of cooling energy during periods of low energy needs. <p>On request ACF units can be pre-assembled as links with the same units (RTCF TK, HT and LB Series).</p>

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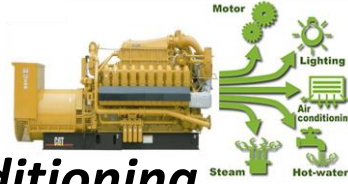
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ROBUR – 5 RT- CHILLER LIST OF PROJECTS WHERE ROBUR GAS FIRED CHILLERS HAVE BEEN INSTALLED.

S. No.	Name of Client	Number of Chiller
1	A.H. International	04 Units
2	Adnan Sherazi's Residence	03 Units
3	Ameed Riaz	01 Units
4	Asif Rehman – CEO Allied Engg –Caterpillar Dealer	02 Units
5	Brother's Textile Mills MD's New Villa, Lahore	06 Units
6	Brother's Textile Mills MD's Old Villa, Lahore	04 Units
7	Commander Jilani, Bath Island - Karachi	04 Units
8	Defence Housing Authority – Head Office	03 Units
9	Dr. Rana Qamar	04 Units
10	DDFC Boilers - EKL M.D.'s Residence, Lahore	03 Units
11	Farooq Mahboob Consultant HVACR Khi	01 Unit
12	Faruukh Shah, Ex- D.M.D., PIA.	02 Unit
13	Fatima Jinnah Memorial Hospital	05 Units
14	Hansa Leather Garment, Sialkot	06 Units
15	International Textile mills Park Tower Clifton Khi	12 Units
16	Karachi Golf Club	05 Units
17	Kardar Specialist Hospital, Faisalabad	04 Units
18	London Watch Company	02 Units
19	Mr. Aftab Ahmed	01 Unit
20	Mr. Ashraf Khan, DHA	03 Units
21	Mr. Azad Khan's Residence	02 Units
22	Mr. Farukh Ikram's Residence	01 Unit
23	Mr. Gulzar Ahmad, Bath Island Khi	01 Unit
24	Mr. Hamid Jaffer's Residence	01 Units
25	Mr. Ikram Mian's Residence	01 Unit
26	Mr. Imtiaz Alam Hanfi's Residence	01 Unit
27	Mr. Issam's Villa, Lahore	04 Units
28	Mr. J. Tarin's Residence	06 Units
29	Mr. Mubashir Hassan's Residence	03 Units
30	Mr. Mumtaz Rahim's Residence	06 Units

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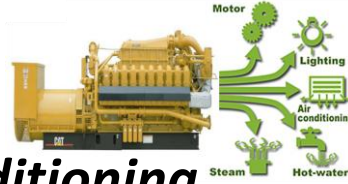
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31	Mr. Nicon's Residence	02 Units
32	Mr. Shahid Akhtar's Residence	04 Units
33	Mr. Waqar Butt Residence	06 Units
34	Mr.. Bukhtiar Residence, Lahore	01 Unit
35	Naveed Malik Villa -Master Foam, Lahore	03 Units
36	Navy House Karachi	08 Units
37	Navy Mess KARACHI	14 Units
38	Novin International	02 Units
39	P. N. S. C. Head Office KHI	02 Units
40	PN Shiffa, Karachi.	03 Units.
41	Pakistan Petroleum Ltd - Sui GAS Fields	04 Units
42	Pakistan Petroleum Ltd Kandh Kot SIND	05 Units
43	Premier Sugar Mill, Islamabad	01 Unit
44	Prinz (Pvt.) Ltd	04 Units
45	Rupali Polyester Ltd. Lahore	23 Units
46	Salman	02 Units
47	Services Club DHA Khi	10 Units
48	Navy War College, Lahore	10 Units
49	Shell Pakistan MD's Residence Khi	03 Units
50	Shoaib Shamsi	03 Units
51	TATA, House, Karachi.	02 Units
52	Ashraf Enterprise, Karachi.	03 Units
53	Sui Southern Gas Company Gulshan-e-Iqbal	15 Units
54	Sui Southern Gas Company Hyderabad	01 Units
55	Sui Southern Gas Company Hyderi Office	01 Unit
56	Sui Southern Gas Company Karachi Terminal	02 Units
57	Sui Southern Gas Various stations (3 T.R.)	32 Units
58	Sunset Club Khi	02 Units
59	Super Asia Factory, Sialkot	06 Units
60	Sohail Shamsi, CEO, Indus Refinery, Karachi.	04 Units.
61	Shaukat & Raza's M.D. House, Karachi.	01 Unit.
62	Tahir Aziz	02 Units
63	Usman Sadiq	02 Units
64	Vista Apparels	01 Unit
65	Yousuf Shamsi	03 Units

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66	Zafa Pharmaceutical Khi	01 Unit
67	Zahid Adamjee's Residence	01 Unit
68	Zahid Anwar	01 Unit
69	Fateh Ali Chemicals (Pvt.) Ltd., Karachi	09 Units
70	A. R. Siddiqui, Karachi	02 Units
71	Mehar Medical Center, Karachi	02Units
72	Eden Developers, Lahore	02 Units
73	Qasim Rabbani's Residence, Karachi	02 Units
74	Dr. Yousuf Kamal's Residence, Karachi.	01 Unit
75	Rupali's Villas, Lahore	24 Units
76	Mr. Habeeb Gheewala Residence, Karachi	10 Units
77	MIA Corporation, Islamabad	03 Units
78	Mr. Salman Residence, Karachi	02 Units
79	Mr. Nadeem Qureeshi Residence, Karachi.	04 Units.
80	M/s. Roches Pakistan Ltd, Karachi.	02 Units
81	M/s. Macter International, Karchi	14 Units
82	Multinet Head Office Bldg, Korangi, Karachi.	24 Unit
83	English Biscuits M.D's Residence, Karachi	03 Units
84	Brdg. Rashid Siddiqui Residence.	03 Units