

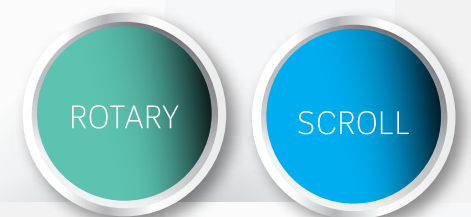
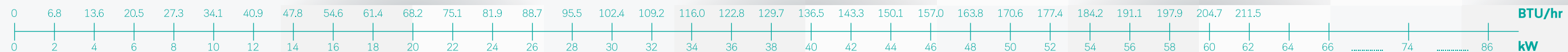
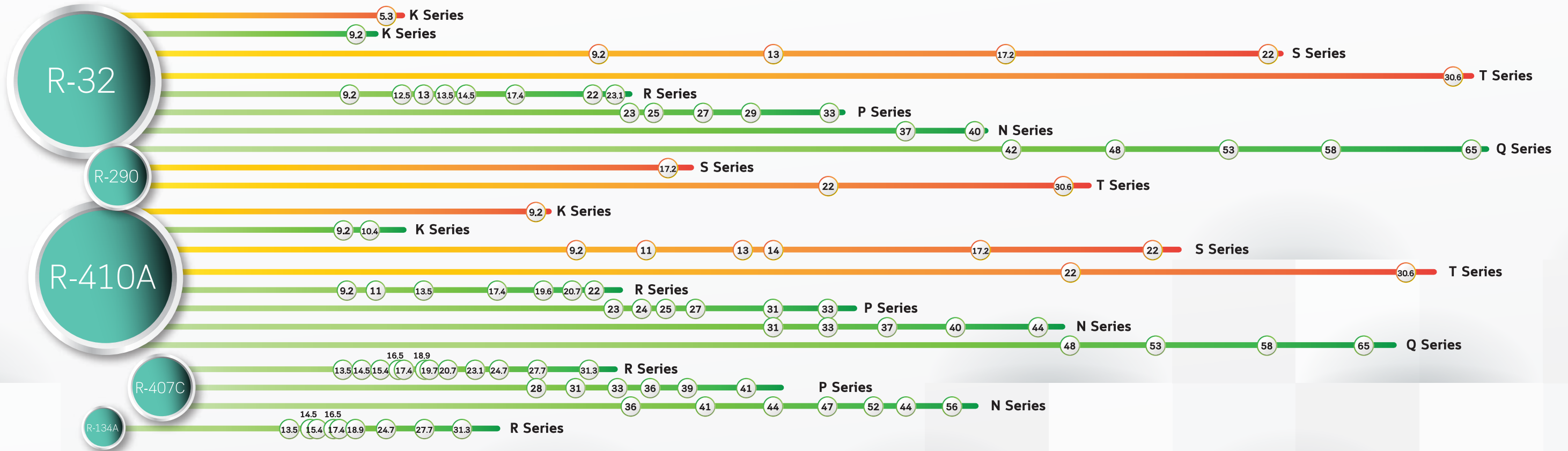


HVAC

Compressors



**SIAM COMPRESSOR
INDUSTRY CO., LTD.**



Capacity at Max Speed
Rotary : ASHRAE-T Condition
Rotary R-32 : ARI Condition
Scroll : ARI Condition

Inverter
Fixed Speed

SCI R-32

Inverter Compressor



Keep your comfortable place with alternative refrigerant series of R-32 inverter compressors - the eco-friendly inverter series that ensures saving and comfort by its higher energy efficiency and precise temperature and humidity control.



Energy saving



Environmental friendly



KVB



SVB



TVB



DVB



AVB
compatible with
oil level sensor

SCI R-32 Inverter Compressor



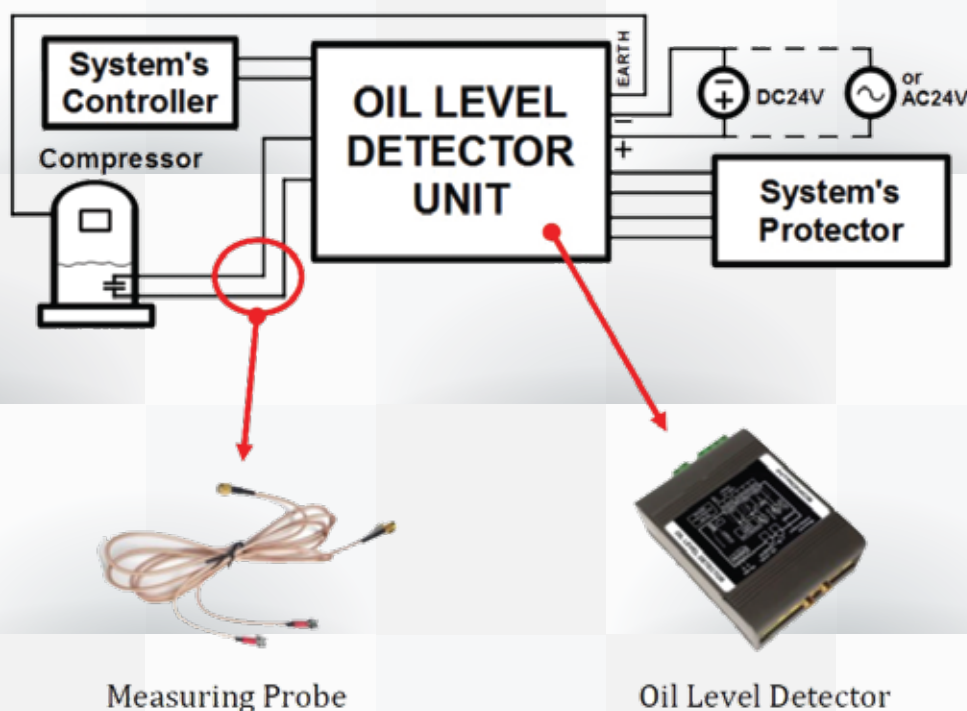
	Capacity range				Performance at 60 rps					
	Watt		BTU/hr		Capacity		COP	EER		
	Min	Max	Min	Max	Watt	BTU/hr			Height	Footshell
KVB053 (25-95rps)	708	2,690	2,410	9,183	1,700	5,800	2.91	9.92	234.2	116
SVB092 (10-130rps)	480	6,260	1,640	21,360	2,890	9,861	3.07	10.49	290.7	116
SVB130 (10-130rps)	570	9,070	1,944	30,948	4,200	14,330	3.18	10.86	290.7	116
SVB172 (10-130rps)	690	10,790	2,354	36,817	5,640	19,244	3.12	10.63	290.7	116
SVB220 (10-120rps)	1,188	14,260	4,054	48,656	7,130	24,328	3.17	10.81	306.4	116
TVB306 (15-120rps)	2,482	19,860	8,470	67,762	9,930	33,881	2.96	10.11	336.6	152
DVB28 (10-100rps)	1,380	15,820	4,709	53,980	9,730	33,199	3.29	11.22	440.1	130
DVB36 (10-100rps)	1,500	20,050	5,118	68,413	11,860	40,466	3.12	10.65	440.1	130
AVB52 (15-120rps)	4,550	36,400	15,525	124,197	18,200	62,098	3.27	11.17	519.3	190.5
AVB66 (15-120rps)	5,720	45,980	19,517	156,884	22,990	78,442	3.34	11.38	519.3	190.5
AVB78 (15-120rps)	6,820	54,600	23,270	186,295	27,300	93,148	3.37	11.49	519.3	190.5
AVB87 (15-120rps)	7,600	60,800	25,931	207,450	30,400	103,725	3.40	11.59	519.3	190.5

Testing condition : ARI

**Specifications subject to change without notice

AVB R-32 Inverter Scroll compressor compatible with oil level sensor

Oil Level Sensor of SCI compressors can control minimum oil level. It will alarm to customer main controller to perform oil return function or stop the compressor. By this method, it can increase reliability and performance from optional oil management. (Operate with oil level judgment unit)



SCI R-290

Inverter Compressor



SCI launches a new green full compressor line-up for natural gas - R-290 ranging from 0.5 kW to 25 kW (SPB and TPB series for Rotary, DPB and APB series for Scroll), and offers a wider operating area for heat pump application. The new line-up ensures a better environmental friendliness by refrigerant of zero ozone depletion and low global warming potential.



Energy saving



Environmental friendly



SPB



TPB



DPB



APB

SCI R-290 Inverter Compressor



	Capacity range				Performance at 60 rps				Size (mm.)	
	Watt		BTU/hr		Capacity		COP	EER		
	Min	Max	Min	Max	Watt	BTU/hr				
SPB172 (15-120rps)	500	5,500	1,706	18,766	2,510	8,514	3.26	11.12	290.7	116
SPB220 (15-120rps)	600	7,000	2,047	23,884	3,010	10,270	3.01	10.27	306.4	116
TPB306 (15-120rps)	550	10,500	1,876	35,827	4,750	16,207	3.21	10.95	301.3	152
DPB28 (15-120rps)	1,400	9,000	4,776	30,709	4,500	15,354	3.75	12.80	440.1	130
DPB36 (15-120rps)	1,800	11,500	6,141	39,239	5,700	19,449	3.68	12.56	440.1	130
APB33 (15-120rps)	1,500	10,500	5,118	35,827	5,100	17,401	3.09	10.55	440.1	190.5
APB42 (15-120rps)	2,000	14,100	6,824	48,111	6,200	21,154	2.82	9.62	440.1	190.5
APB52 (15-120rps)	2,500	17,500	8,530	59,712	8,300	28,320	3.17	10.81	440.1	190.5

Testing condition : Heating ET= -7 °C, CT= 50 °C

**Specifications subject to change without notice



SCI R-32 & R-410A

Inverter Compressor with Injection



To enhance the performance of HVAC unit especially for Air-to-Water heat pump, SCI combines the radical innovations of Inverter and Injection (BNK injection, ANB injection, DNK & DVK injection series) to increase the effectiveness and the capability of its operation at low-temperature condition, -25 °C to -30 °C (the lowest evaporating temperature at -37 °C), as well as to assure the full benefit of energy saving, and environmental friendliness.



Energy saving



Injection Technology



DNK



**ANB
Injection**



BNK

	Capacity range				Performance at 60 rps					
	Watt		BTU/hr		Capacity		COP	EER		
	Min	Max	Min	Max	Watt	BTU/hr			Height	Footshell
DVK28 (15-120rps)	2,565	20,520	8,751	70,014	10,260	35,007	3.41	11.65	440.1	130
DNK22 (15-120rps)	1,910	13,950	6,517	47,599	7,000	23,884	3.18	10.86	440.1	190.5
DNK28 (15-120rps)	2,270	18,110	7,746	61,794	9,060	30,913	3.21	10.96	440.1	190.5
DNK36 (15-120rps)	3,010	23,140	10,271	78,957	11,640	39,716	3.24	11.06	440.1	190.5
ANB33 (20-120rps)	3,200	20,700	10,918	70,628	10,600	36,167	3.27	11.16	440.1	190.5
ANB42 (20-120rps)	4,020	27,810	13,716	94,888	12,800	43,674	3.14	10.70	440.1	190.5
ANB52 (15-120rps)	4,560	36,300	15,559	123,856	16,600	56,639	3.13	10.69	519.3	190.5
ANB66 (15-120rps)	5,820	46,150	19,858	157,464	21,000	71,652	3.26	11.11	519.3	190.5
ANB78 (15-120rps)	6,640	54,300	22,656	185,272	25,200	85,982	3.34	11.39	519.3	190.5
ANB87 (15-120rps)	7,250	57,280	24,737	195,439	28,000	95,536	3.29	11.24	519.3	190.5
BNK110 (15-120rps)	9,187	70,337	31,347	240,000	36,750	125,391	2.85	9.72	651.9	190.5
BNK128 (15-120rps)	10,690	82,059	36,474	280,000	42,760	145,897	2.88	9.82	651.9	190.5

Testing condition : ARI

**Specifications subject to change without notice

Q Series

Giant size rotary



168.5 mm.



QV

436.5 mm.

Big-sized twin rotary compressor, enlarges capacity range of rotary compressor and covers capacity range of fixed speed Scroll. This solution is the best value for you.

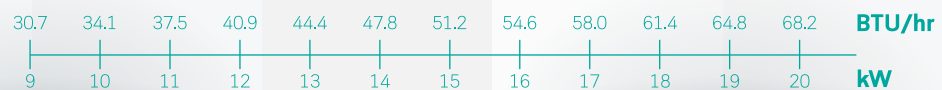


High Capacity

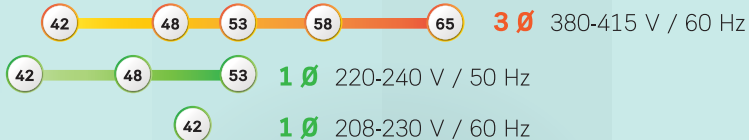


High Reliability

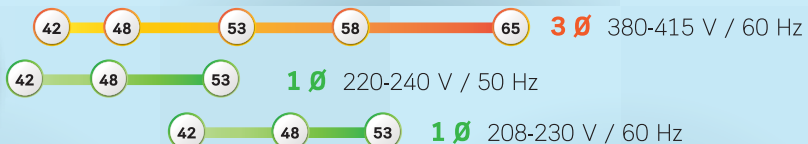
Q Series line-up



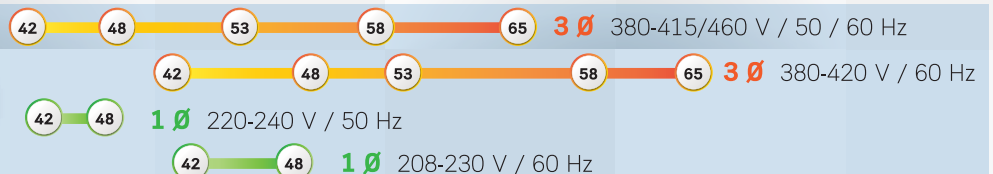
QV
(R-32)



QN
(R-410A)

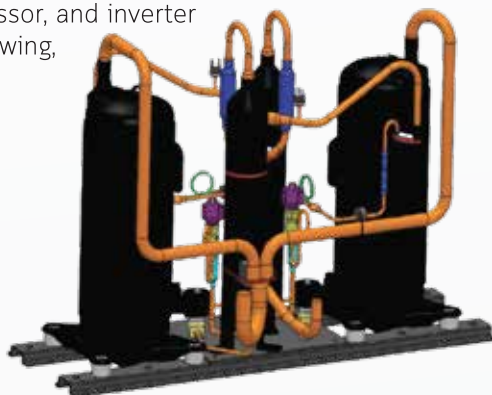


QNT
(R-410A)



SCI rack design support

SCI, a developer of high performance and energy saving solution as rack design to support sizeable air-conditioning systems, has line-up a new solution of inverter compressors for efficient and dependable chillers. We will support customer a rack design with our compressor, and inverter driver also including piping drawing, oil management, and other technical information.



High reliability by intelligence oil management



High efficiency by full inverter



Low noise and vibration



Easy piping connection

Thermoacoustic shell

In the area which have a very low temperature that need the product to control compressor temperature also have low noise level in order to start normally and also work efficiently. SCI Thermoacoustic shell is the solution. More than that, it can reduce compressor sound level by 10 dB.

Horizontal Suction (short)



Horizontal Suction (long)



Vertical Suction



Features : - Optional for sound sensitive application such as metropolitan shops and retailers in residential areas by reducing 10 dBA compare to compressor without its.

- Easy to fit
- Increase efficiency for heat pump application



Model for D-Series



Model for S-Series



Model for T-Series

MUTO - Oil Separator

SCI Multi-tube oil separator has a special Multi-tube (Patented) that makes oil get together to be bigger particle and separate oil efficiently up to 99% which oil particle size is smaller than 100 micrometers. Especially, it's high efficiency oil management.

Multi-tube oil separator is used for VRF, CCAC and refrigerant system for use with HFC and HCFC refrigerants.

- Features :**
- Easy installation and service
 - Superior efficiency 99%
 - Light weight
 - No pre-charge oil
 - Use centrifugal principle
 - External oil return management

- Specification :**
- Maximum working pressure 5 MPaG
 - CE marked per PED 97/83EC
 - Certified by UL certification (MUTO-A4053N)



Type	Refrigerant	Height (mm)	Weight (kg)	Stroke (CC)		Recommend expansion size	
				Inverter compressor	Fix speed compressor	Orifice (in)	Cap tube (mm)
MUTO-A2053N	HCFC, HFC	362	1.5	≤ 33	≤ 66	0.032	0.044" x 1300
MUTO-A4053N		522	2.2	33 - 78	66 - 128	0.032	0.055" x 1200

SCI Inverter Driver



SIAM COMPRESSOR
INDUSTRY CO., LTD.

Standard

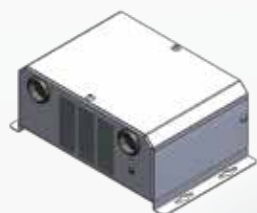
Complete Matching between driver & Compressor
Package Solution



Feature

- Operating temperature -20°C to +60°C, 2 to 95%RH (Non-condensing, Non-freezing)
- Efficiency more than 95%
- Low harmonic distortion (Power factor up to 0.99)
- Built-in Overcurrent protection
- Built-in Compressor control envelop
- Built-in Motor Heat function
- Built-in Oil management control
- Water/Refrigerant loop cooling for liquid cooling type

Optional



Noise Filter

EMC Standard : IEC61800-3

- Emission Class C1
- Radiation Class B (Household)

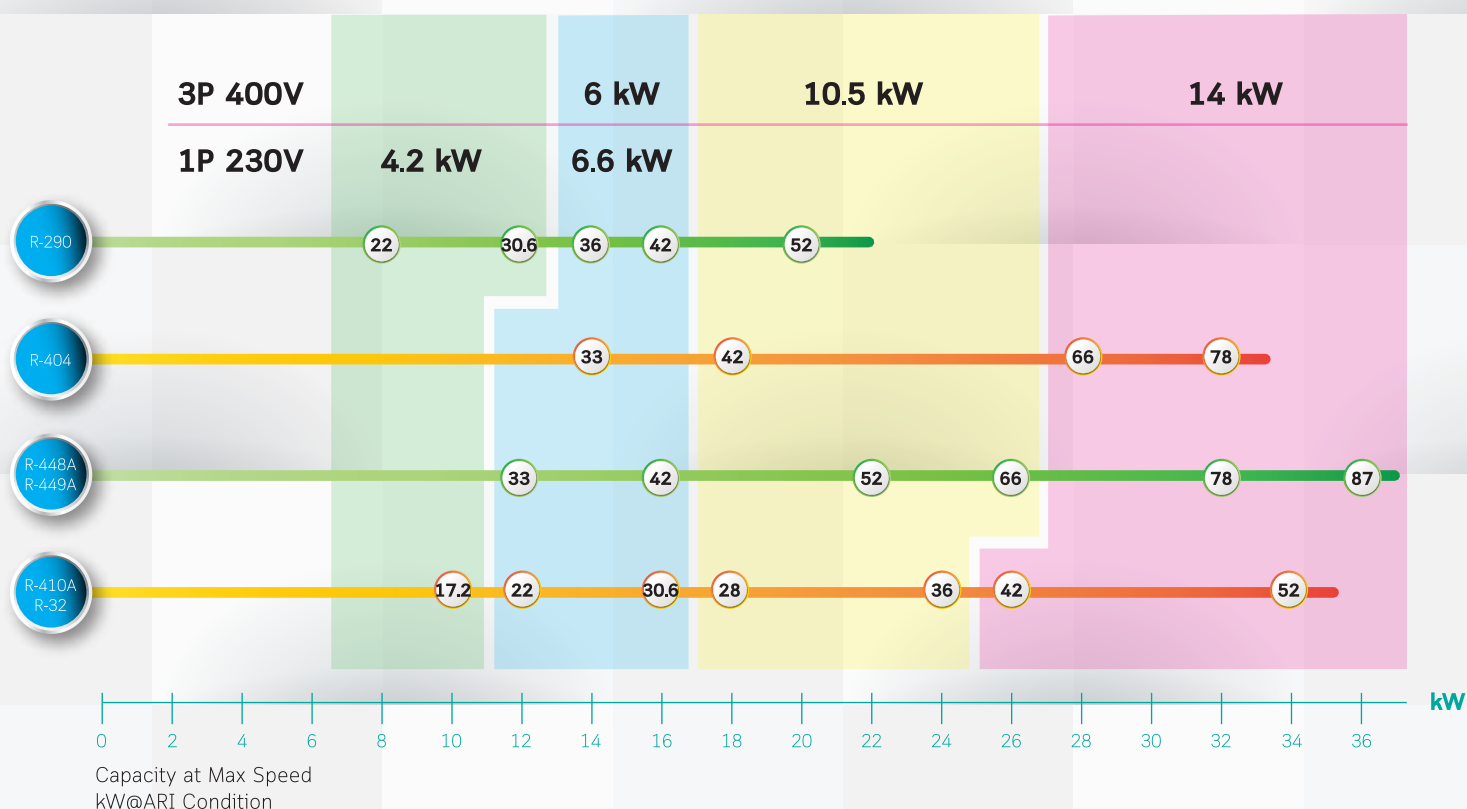
Leakage Current <3mA



Reactor

- AC Reactor (3pcs/set) : IEC61000-3-2 ($\leq 16A$ input)
- DC Reactor (1pc/set) : IEC61000-3-12 ($\leq 75A$ input)

SCI Inverter Driver Line-up





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Fax. +66 (0) 2298 0411 to 2

Website : www.siamcompressor.com

Specifications subject to change without notice