Spare parts Hyperchill HLS (50Hz)

(Date 04.03.15)



Index

GENERAL TERMS OF SALES	,
HLS005-015 (STANDARD - PRECISION CONTROL)	
HLS022-029 (STANDARD)	10
HLS 022-057 (PRECISION CONTROL)	
HLS 076-116 (PRECISION CONTROL)	
1125 07 0 110 (1 K2 0101011 C 01111K02)	

Introduction

The following shall be regarded as the general terms of sale between Parker Hiross (Seller) and Purchaser. None of these terms may be added to, modified, superseded or otherwise altered by Purchaser, unless specifically agreed to, inwriting and signed, by Seller. These terms shall, accordingly, supersede and modify any terms that may be contained in any letter or other from Purchaser. They also supersede any oral representations made by either party in connection with the transaction.

Validity

This "Parker Hiross Master Price List" cancels and supersedes all previous Parker Hiross Price Lists. Prices are valid starting from the date indicated in the Price List. This Price List is valid until written notice to the contrary, or the emission of a new Price List. Technical data contained in this publication is to be considered as indicative only. The manufacturer reserves the right to modify technical data at its own discretion and without prior notice.

Quotation

Seller has the right, at any time and even after the order, to make alterations to, or with draw (prior to order confirmation), its offers. Prices quoted shall always be regarded as indicative only.

Acceptance of order

Orders shall be regarded as accepted by Seller only after issuing the respective order confirmation. Seller's charges for cancelling booked and confirmed orders shall range up to 100% of the net order value, depending on completeness of the equipment and its reclamation value. Minimum accepted value for an individual order shall be Euro 200, or the equivalent in other currencies. Orders for lower values will be subject to a Euro 100 (or the equivalent in other currencies) order processing charge.

Price

Price shall be as stipulated in the order confirmation. All non Euro prices are nonetheless calculated from the Euro price, and then rounded to the nearest full digit. As a result there may be a minor difference between the listed and invoiced prices. In the event no price is stipulated, equipment shall be charged at Seller's prevailing Price list. Unless otherwise agreed, inwriting, price shall be ex Seller's factory, with standard packing. Seller reserves the right to modify prices at the confirmation of the order to Purchaser. If the confirmed price increase exceeds 5 (five) percentage points, Purchaser has the right to withdraw from the contract, upon written notice addressed to Seller within 2 (two) days from the date of the receipt of the communication concerning the price adjustment. Upon the expiration of such term, or with the acceptance of the goods' delivery by Purchaser, the adjustment is deemed to be accepted and binding between the parties.

The Price shall be valid for delivery as per the date agreed in the order confirmation. If Purchaser requests (in writing) any delay in shipping of the equipment, Seller will reserve the right to revise the price.

Changes to booked and confirmed orders shall be subject to aminimum net service charge corresponding to Euro 100 (or the equivalent in other currencies), to cover changes in documents. This charge may be increased, depending on order status and nature of requested modification.

Delivery

The delivery date shall be as indicated in the order confirmation. The delivery terms, indicated in the order confirmation, are to be considered as part of this General Terms of Sale. Acceptance of shipment by a common carrier or allocation of equipment to Purchaser shall constitute delivery. Thereupon responsibility shall pass to Purchaser, subject to Seller's right of stoppage in transit. Where a trade term has been agreed, it shall be interpreted in accordance with the INCOTERMS in force at time of contract. If no trade term is specifically agreed delivery shall be considered to be ExWorks. Unless expressly specified in the INCOTERMS, goods in transit always travel at Purchaser's risk. Purchaser will bear all costs involved in removing the goods from Seller's premises. Delivery of all or any part of the order is contingent upon Seller's ability to obtain supplies, raw materials and service through its regular sources of supply. Should Seller, temporally or permanently, be unable to deliver the products for reasons not imputable to the same such as force majeure, (e.g. earthquake, strikes, lockout, lack of means of transportation, authority ordinance, floods, etc.) it will be released from all delivery and indemnification obligations towards Purchaser for the entire duration of the period in which the impediment and its effects last. Upon the occurrence of such impediment, Seller will promptly inform Purchaser thereof. In the aforesaid cases, delays in delivery shall not give any right to Purchaser to claim for damages or to cancel the order. Delivery time shall commence from the date of the order confirmation, but not before Seller having received, from Purchaser, all necessary drawings and approvals, if any, or down payment. Partial deliveries shall not be refused by Purchaser and will be paid for at contract prices and terms. If the delay, not caused by an event of forcemajeure, exceeds 90 (ninety) days, Purchaser will be allowed to cancel the outstanding part of the order. Each party may terminate the purchase agreement in the event that its effects, due to events mentioned above, becomes excessively onerous and therefore the contract is no longer of interest for such party. If Seller performs the installation of goods, Purchaser will have to take care of and preserve the delivered goods, until the completion of installation. Purchaser shall pick up the purchased products at the dates agreed, unless otherwise agreed between the parties. Purchaser's requests in this regard shall be taken into consideration by Seller, provided that Purchaser has made its request at least 30 (thirty) days before the original delivery date. If Purchaser does not pick up the purchased goods at the agreed date, Seller will have the right to invoice and receive payment for any equipment not picked up. The costs of storage will be born by Purchaser.

Reserve of property

All goods supplied shall remain property of Seller until such time as full payment will have been received from Purchaser in settlement of all pertaining Seller's invoices. Cheques and bills of exchange issued by Purchaser will be considered as payment only after having been cashed by Seller's bank.

Claims and complains

Purchaser shall inspect the delivered goods and notify Seller, in writing and within 8 (eight) days from the delivery date, of defects found or that may be found upon a preliminary inspection, or any other claim related to the goods. Should Purchaser fail to make such notification, the goods shall be deemed as definitely accepted and in compliance with what set forth in the contract, without being prejudicial to the possibility to report any hidden defect, assuming this is within the warranty period; in any case the notification of the defects must be communicated within 8 (eight) days from the discovery thereof. If the received goods have been damaged during transit, Purchaser will have to highlight this on the C.M.R. or on the Delivery note. Expenses related to the shipment of any eventual returns shall be borne by Purchaser. Possible objections concerning part of the goods delivered, or a single shipment of the same, shall have no effect on the rest of the order, nor on the payment of goods already received and not promptly challenged.

Payment

Payment shall be upon those terms agreed to by Purchaser and Seller. In the event there is no agreement, payment shall be by Cash in Advance. Failure by Purchaser to effect payment at due date will result in Seller cancelling all express warranties, not with standing taking recourse to remedies provided by the law. In case of delayed payment, Purchaser will automatically be charged interest calculated pursuant to the Italian decree no. 231/2002, without the need for any notice of default. In the instance of equipment held subject to Purchaser's instructions, equipment for which Purchaser has failed to supply shipping instructions, or in any case where Seller, in its own sole discretion, determines any part of the equipment purchased by Purchaser should be held for Purchaser's account, Seller may invoice the equipment and Purchaser agrees to make payment at the maturity of the invoice sorendered. Equipment invoiced heldat any location, for whatever reason, shall be at Purchaser's risk and Sellermay charge for insurance and storage at prevailing rates.

Resolution of contract

The terms of payment are fundamental elements, and any default in payments or any unilateral change constitutes the right of withdrawal for Seller to stop deliveries and consider any supply agreement as rescinded without notice, intimation or other. The same is valid for Seller in the event of changes in the economic-property conditions of Purchaser (Art. 1461 C.C.).

Drawings and installation details

Drawings,models and instructions for the installation of equipment supplied are the exclusive property of Seller; Purchaser cannot pass these to any third party. Seller shall not warrant the correctness of drawings which have not been certified by Seller. Certified drawings shall only be available upon written request from Purchaser, and shall be charged at a price to be agreed upon. Seller reserves the right to, at any time prior to delivery of certified drawings to Purchaser,make any changes in model or design of equipment, including components thereof.

Warranty

Seller warrants to Purchaser all equipment to be free from defects in material and workmanship for aperiod not exceeding 1 year from the date of installation of the equipment, but for a maximum of 18 months from the shipping date. This obligation is limited to repairing and replacing, at Seller's factory, any part found faulty during said period, with the following limitations:

- a) Warranty is effective only if equipment has been installed, commissioned andmaintained in accordance with Seller's instructions (Parker Hiross User Manual) and, where necessary, connected to adequate electric, water and drain services, cleaned out correctly and placed into operation by a qualified technician. The effects of erosion, corrosion and normal wear-and-tear are specifically excluded from this warranty.
- b) Seller reserves the right to, for specific products grant warranty terms only on the condition that Commissioning has been performed by Seller's Service personnel or, failing this, Service personnel authorised by Seller beforehand. In the latter case the relevant Commissioning Report must be compiled by the authorised Service personnel and sent to Seller. Failure to adhere to this procedure will result in loss of warranty.
- c) Seller reserves the right to replace a product under warranty, and will accept no costs as to the removal and installation of the products.
- d) Seller reserves the right to change or improve the design of its products without assuming any obligation to modify any product previously manufactured.
- e) Poor maintenance or improper use will result in loss of warranty.
- f) Seller shall not assume responsibility for any labour expenses incurred by Purchaser in replacing or changing defective parts or equipment covered by this warranty.
- g) This warranty is granted to original Purchaser only and cannot be transferred, unless authorised in writing by Seller. Purchaser shall notify Seller of a defect with in maximum 8 (eight) days from the discovery thereof, and in no case later than 8 (eight) days after expiry of the above stated warranty. Purchaser will notify fault by filling out the "Passport", as distributed by Seller.

Any claims against this warranty must be substantiated at the time the fault arises, and it will be at Seller's discretion to:

- h) Supply replacement parts ex-works Seller's factory,
 - or ii) repair parts locally, with travel/living/labour expenses at Purchaser's charge,
 - or iii) authorise Purchaser to have components repaired locally,
 - or iv) authorise Purchaser to buy replacement parts locally,
 - or v) require Purchaser to return damaged parts to Seller, prepaid, for repairs.

Seller has the right to ask for components, claimed as being faulty, to be returned to its factory, transport prepaid, for inspection, or to request Purchaser to keep these parts in stock for eventual inspection by Seller's representative. Seller is not obliged to make any guarantee payments before having had the opportunity to verify said claim in either manner described above. Any requests from Purchaser founded on the warranty clause or on asserted non-fulfilment thereof on the part of Seller or others shall not in any manner authorise Purchaser to delay or modify the agreed payment terms.

Warranty waiver

This is a written agreement between Seller and Purchaser, representing an alternative to the Warranty described previously. Should this agreement exist, Seller will grant Purchaser a 2% discount (included in the discount communicated by Seller to Purchaser) on the price of the products; in exchange Purchaser accepts to take over all costs which, according to the previous chapter, should be covered by Seller. QSR and LCD dryers, and eventually special products not listed in the present Master Price List, do not fall under the warranty waiver agreement, remaining with the previously described warranty. These costs include (but are not limited to):

- a) Costs arising from machine break down or malfunctioning due to faulty components (i.e. electrical defects on compressors, faulty pressure switches, defective control panels, etc.).
- b) Costs resulting from repair of isolated faults, not detected during quality controls, or any related secondary damage (i.e. incorrect wiring, leaks, etc.).

The only costs to be considered not covered by Warranty Waiver discount are the costs connected to rectifying clear defects resulting from design faults in equipment, as shown by recurring defect patterns on an international scale. In this case Seller will recognize to Purchaser thec ost ExWorks of the faulty component, plus the labour cost to repair the equipment. Seller will evaluate the labour cost on a case-by-case basis.

Liability for damage to property or other caused by goods

Purchaser shall indemnify and hold Seller harmless for any damage caused by equipment to:

- a) any (movable or immovable) property, where damage occurs while equipment is in Purchaser's possession, or
- b) products manufactured by Purchaser, or products of which Purchaser's products forma part, or for loss or damage to any property, where damageis caused by these products because of properties in the equipment. Seller shall under no circumstances be liable for loss of production, loss of profit, or any other consequential economic loss. The above is valid both within and after the warranty period.

Invalidity of provisions

If any of these terms shall be held invalid, illegal or unenforceable, the validity of remaining provisions shall not in any way be affected or impaired thereby.

Individual contracts

For all individual contracts stipulated between Seller and Purchaser, any terms within these General Terms of Sale which are not covered in the individual contract will remain valid.

Privilege

Seller reserves the faculty to, in case of extended payment (even partial), make use of the right of privilege (art. 2762 C.C.). The right of privilege maintains its full validity even in the event of a change in the agreed payment conditions or concessions or extension, given that these events, under explicit agreement of Purchaser, do not constitute an extension of credit, with the present terms of sale remaining unchanged. In any case, the effects of Purchaser do not affect the credit situation and are reserved and accepted for cash convenience and without any prejudice of Seller's rights.

Intellectual property

Trademarks, commercial names or other distinctive marks on the goods are of exclusive property of Seller, and will not be altered, changed, removed or cancelled in any manner. Purchaser can use, to the limited purpose of resale of the goods to the public, the trademarks, commercial names and other distinctive marks, as well as other industrial exclusive rights or Know-how associated with the goods, which nonetheless remain the exclusive property of Seller. Any other utilization of the Intellectual Property, if not expressly granted by Seller in writing, will be considered a violation of the aforementioned exclusive rights of Seller, also under the profile of the contractual responsibility, and will be prosecuted.

Confidentiality

These Conditions, all Orders and any other information ormaterial supplied by (or on behalf of) one party to the other are strictly confidential and will not be disclosed (in whole or in part) to any other person without the disclosing party's prior written consent. The receiving party will not make use of the disclosing party's name, or any other information contained in these Conditions (or supplied pursuant to them), for publicity purposes without the disclosing party's prior written consent.

Privacy

Purchaser declares to be aware that all data communicated will be handled and utilized exD. Lgs. 196/2003, according to what better specified in the a latere agreement of the sales contract.

Disputes

All disputes arising from or in connection to the contract shall be judged according to Italian law. The Court of Padua (Italy) shall have the exclusive jurisdiction.

	COMPONENT	(7.4 / 7.5)	HLS005	HLS007	HLS010	HLS015	
	2 19	(18) (19) (20) (22) (23) KM1 KM7	on re	on request		-	
<u>a)</u>	3 year maintenance kits	18 19 20 22 23 KM1 KM5 KM7		-	on request		
b)	1. compressor kits	①⑦ _{KM1}	398H473255	on request	398H473257	398H473214	
	2. fan kits	3	398H3	381783		-	
	z. ran kits	3 KM5		-	398H4	173226	
	2 mumm lite (D20 2 hans)	(12)	on re	equest		-	
	3. pump kits (P30 - 3 barg)	(12) KM7, F1		-	398H4	173259	
	4. fan pressure switch kit	22)		398H	473682		
c)	refrigerant condenser	2	398H114736	398H114791	398H114762	398H114799	
	refrigerant filter	7	398H206219 398H2		1206226 398H206221		
	expansion valve	8	- 398H37		378803		
	pump P15 (1.5 barg)	(12)	on request		on request		
	pump P50 (5 barg)		on re	equest	on request		
	water manometer	(15)		398H	354039		
	water outlet temperature sensor	(18)	398H2	275171	398H2	275233	
	evaporator temperature sensor	19)	398H275171 398H27523		275233		
	water level sensor	20)	398H275924				
	electronic control	21)	398H275744				
	high pressure switch	23)	398H354052				
	hot gas solenoid valve	(36)		398H	183107		
	plate type heat exchanger	(41)	398H	176814	398H	176816	

differential water pressure switch	(42)	398H354136		
main switch	QS	398H256431 398H256418		
fans/pump/compressor automatic switch	QF1	- 398H256234		
compressor contactor	KM1	398H256248 398H256245		
fan contactor	KM5	- 398H256243		
pump contactor	KM7	398H256243		
alarm relay	KA1-2-3	398H256152		
antifreeze heater contactor	KRA1	- 398H256243		

Diagram circuit (standard)

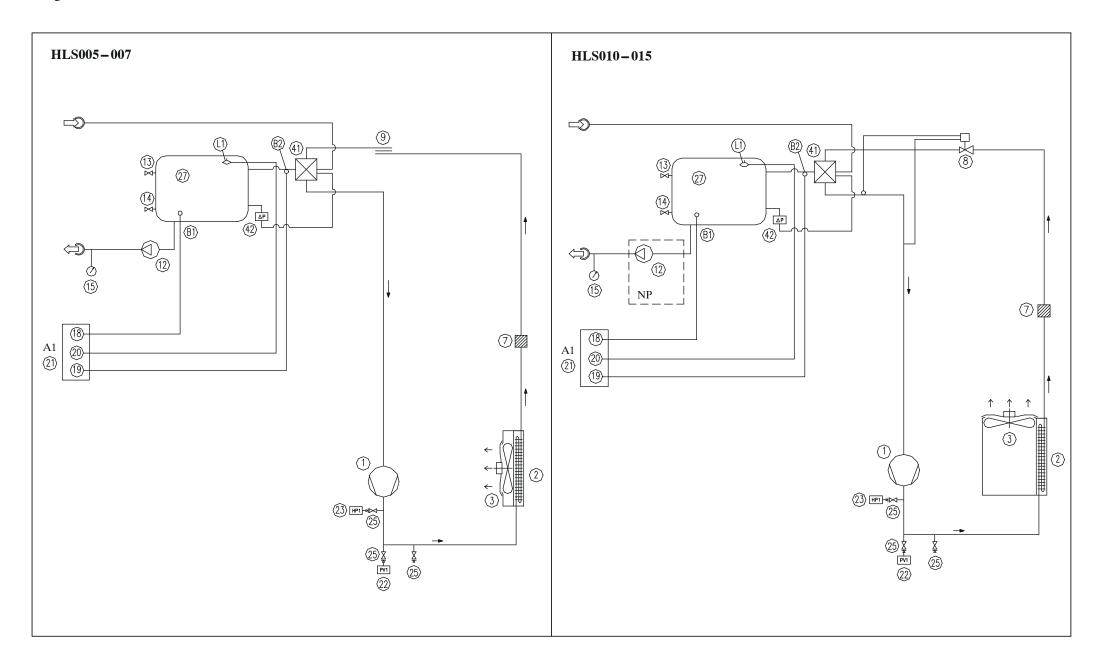
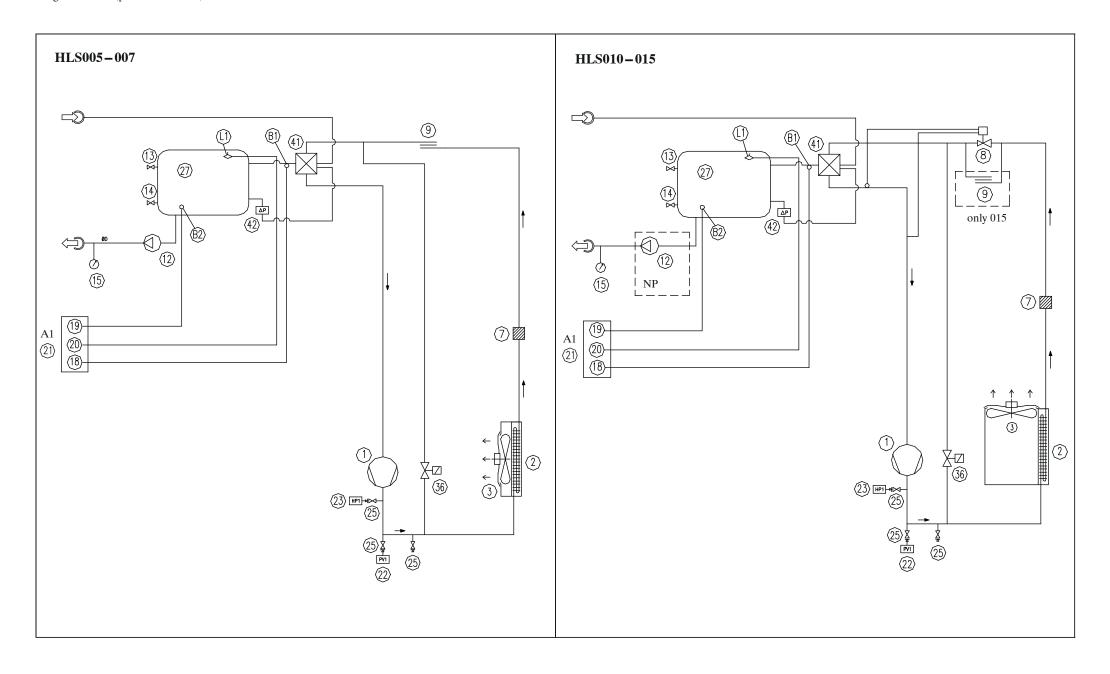
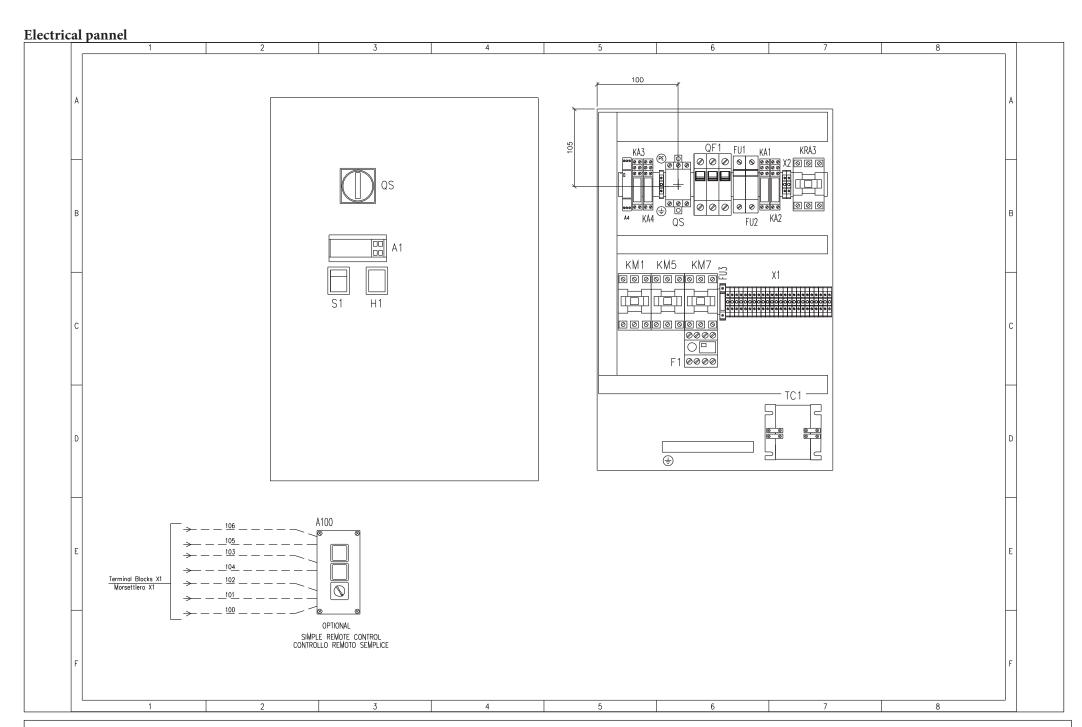


Diagram circuit (precision control)



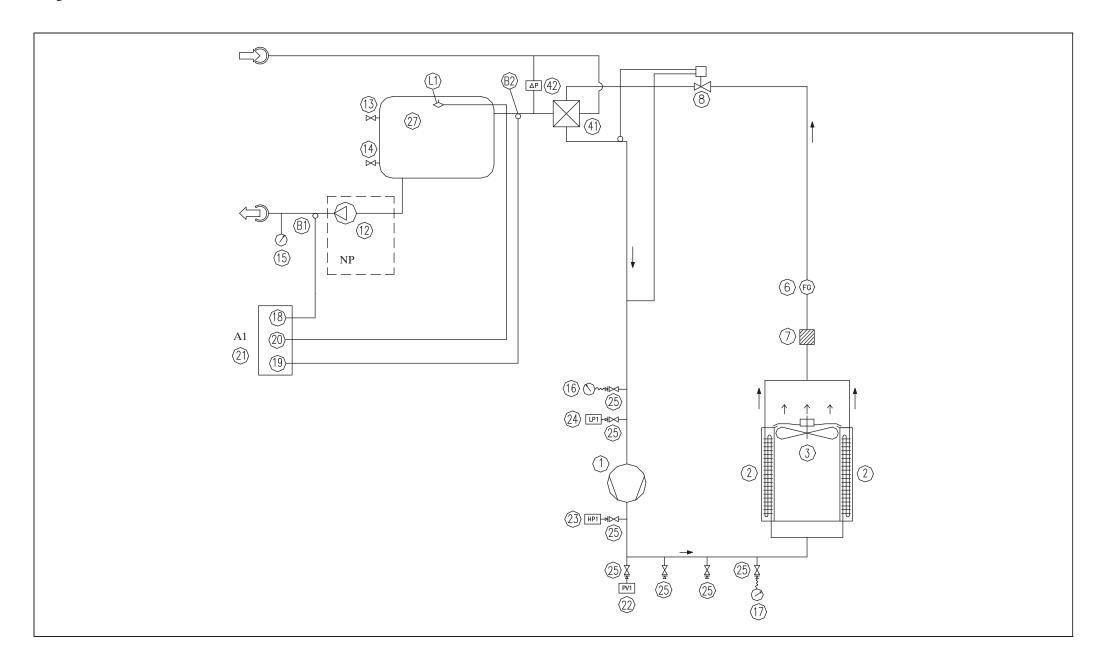


Component		(7.4 / 7.5)	HLS022	HLS029		
3 year maintenance kits	(Axial)	(18) (19) (20) (22) (23) (24) KM1 KM5 KM7	398H473202	398H473203		
1. compressor kits		① (7) KM1	398H473725	398H473726		
2. fan kits	(Axial)		398H4	173229		
3. pump kits (P30 - 3 barg)		12 KM7, F1	398H4	173236		
4. expansion valve kit		7 8	398H473242	398H473243		
5. pressure fan kit		-	398H4	173682		
refrigerant condenser	(Axial)	2	398H1	14818		
sigh glass		6	398H348021	398H348024		
refrigerant filter		7	398H206221	398H206224		
pump	P15 (1.5 barg)	(12)	on request			
pump	P50 (5 barg)	(12)	on re	on request		
water manometer		(15)	398H3	354039		
refrigerant suction manometer		(16)	398H3	354038		
refrigerant discharge manometer		(17)	398H3	354038		
water outlet temperature sensor		(18)	398H2	275233		
evaporator temperature sensor		(19)	398H2	275233		
water level sensor		20	398H275924			
electronic control		21)	398H474003			
high pressure switch		23)	398H354052			
low pressure switch		(24)	398H354054			
plate type heat exchanger		(41)	398H176817 398H176818			

Component	(7.4 / 7.5)	HLS022	HLS029	
differential water pressure switch (Water)	(42)	398H354136		
local display	A2	398H2	275698	
main diconnector switch	QS	398H256418	398H256423	
compressor automatic switch	QF1	398H256234	398H256238	
compressor contactor	KM1	398H256245	398H256246	
fans contactor	KM5	398H256243		
pump contactor	KM7	398H256243		
high pressure alarm relay	KA1	398H256152		
antifreeze heater contactor	KRA1	398H256243		
plactic capillary		398H370004		
plastic capillary	-	398H3	370004	

HLS022-029 (STANDARD)

Diagram circuit



Electrical pannel (Sheet 1 of 7) ELECTRICAL PANEL LAY-OUT / PLANIMETRIA QUADRO ELETTRICO REMOTE DISPLAY DISPLAY REMOTO OPTIONAL KM1 KM5 KM7 KRA1 ||----||----||----| Α1 TC1 || A102 Terminal Blacks X3 Morsettiera X3 OPTIONAL SIMPLE REMOTE CONTROL CONTROLLO REMOTO SEMPLICE

HLS022-029 (STANDARD)

Component		(7.4 / 7.5)	HLS022	HLS029	HLS039	HLS046	HLS057
3 year maintenance kits	(Axial)	(18) (19) (20) (22) (23) (24) KM1 KM5 KM7	398H473202	398H473203 398H473204			173204
1. compressor kits		①⑦ _{KM1}	398H473725	398H473726	398H473727	398H473728	398H473729
2. fan kits	(Axial)	3 KM5	398H4	173229		398H473230	
3. pump kits (P30 - 3 barg)		(12) KM7, F1		398H473236		398H4	173237
4. expansion valve kit		78	398H473242	398H473243	398H4	173244	398H473245
refrigerant condenser	(Axial)	2	398H1	114818	398H114819	398H114820	398H114821
fan motor	(Centrifugal)	3			398H3	381605	
sigh glass		6	398H348021		398H3	348024	
refrigerant filter		7	398H206221		398H206224		398H206225
tank		27)	on request	on re	quest	on request	on request
pump	P15 (1.5 barg)	(12)	on request		on re	quest	
pump	P50 (5 barg)		on re	quest	on re	quest	on request
water manometer		15)			398H354039		
refrigerant suction manometer		(16)			398H354038		
refrigerant discharge manometer		17)			398H354038		
water outlet temperature sensor		(18)		398H275233			
evaporator temperature sensor		(19)		398H275233			
water level sensor		20		398H275924			
electronic control		(21)	398H474003				
electronic control	(CPT)	(21)	398H474001				
fan pressure switch kit (PV1)	(Axial)(Centrifugal)	22)			398H473682		

Component	(7.4 / 7.5)	HLS022	HLS029	HLS039	HLS046	HLS057	
fan pressure switch (PV2-3) (Centrifugal)	(22)		398H354119				
high pressure switch	23)			398H354052			
low pressure switch	(24)			398H354054			
electrovalve	(28)					398H183104	
hot gas solenoide valve 1	36)	398H183108		398H	183104		
hot gas solenoide valve 2	<u>37</u>)	398H183108		398H	183104		
plate type heat exchanger	41)	398H176817	398H176818	398H176819	398H176820	398H176821	
differential water pressure switch	42)		398H354136				
local display	A2	398H275698					
main diconnector switch	QS	398H256418	398H256418 398H256423				
compressor automatic switch	QF1	398H256234	398H2	256238	398H2	256242	
compressor contactor	KM1	398H256245	398H256245 398H256246 398H256353			256353	
fans/pump contactor	KM5-6-7	398H256243					
high pressure alarm relay	KA1	398H256152					
antifreeze heater contactor	KRA1	398H256243					
mlastic somillams		398H370004					
plastic capillary	-			398H370005			

Diagram circuit HLS022-039

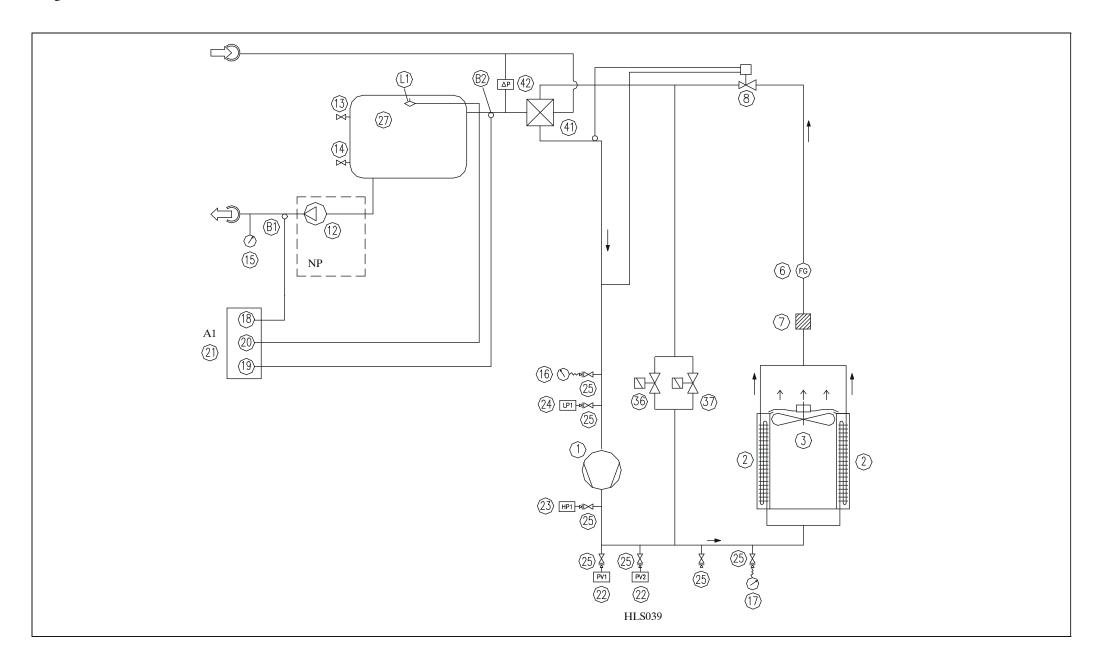
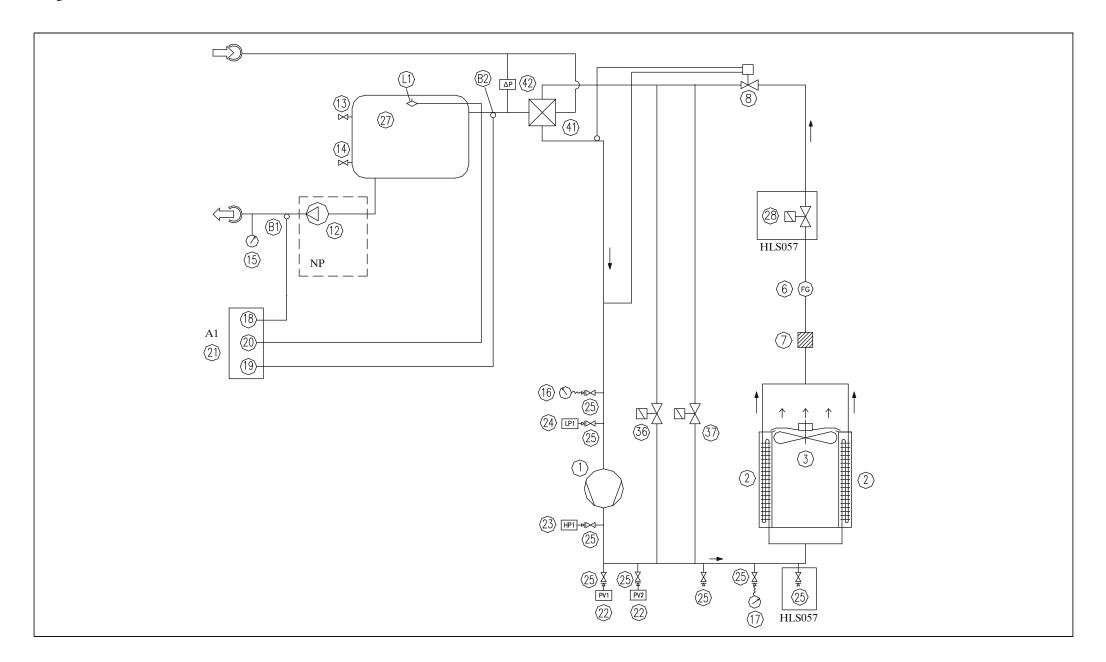
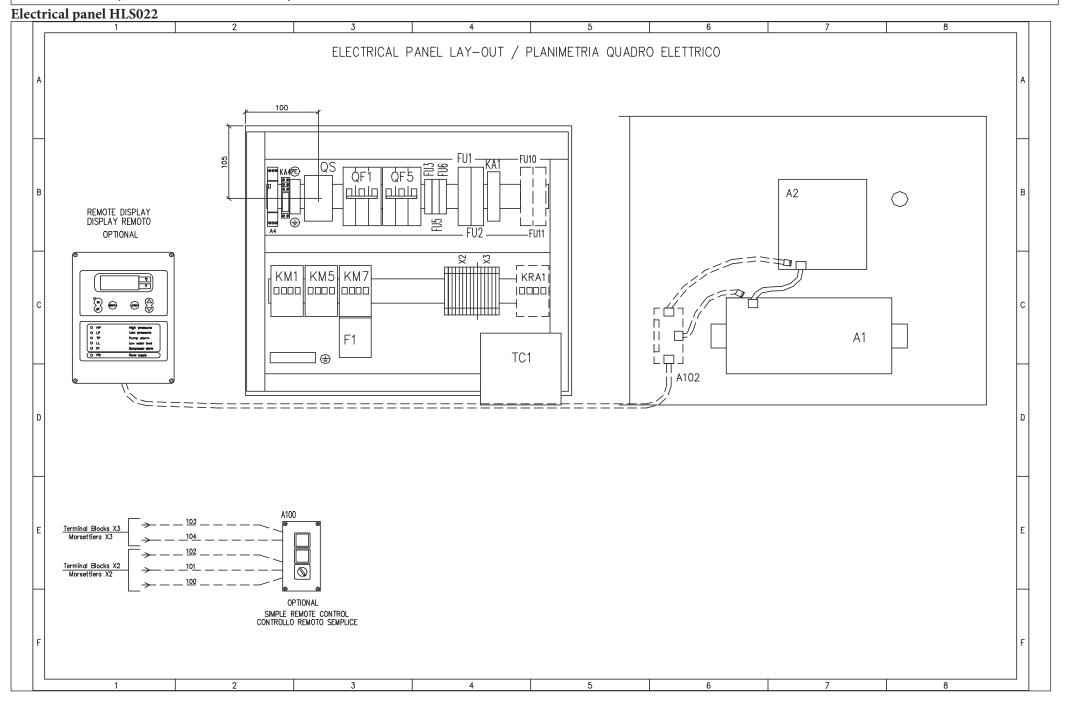
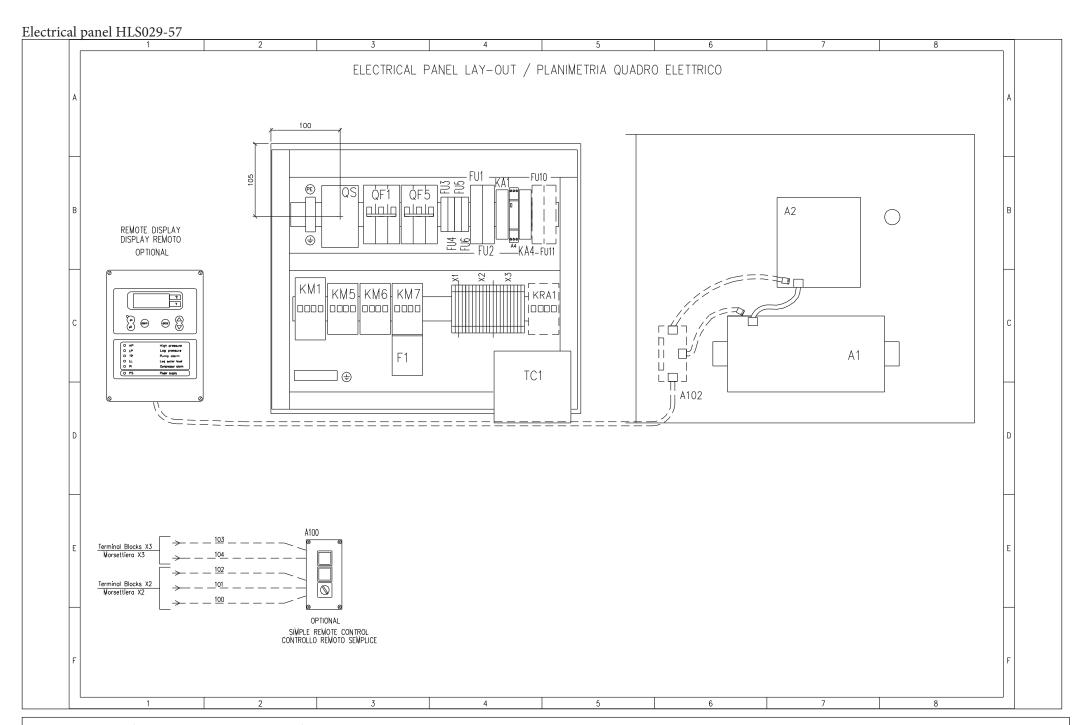


Diagram circuit HLS046-057







Component		(7.4 / 7.5)	HLS076	HLS090	HLS116	
3 year maintenance kits	(Axial)	(18) (19) (20) (22) (23) (24) KM1 KM5 KM7	398H473205	398H473206		
1. compressor kits		① 7 KM1	398H473729	398H473730	398H473731	
2. fan kits	(Axial)	3 KM5		398H473231		
3. pump kits (P30 - 3 barg)		(12) KM7, F1		398H474133		
4. expansion valve kit		78	398H473244	398H473134	398H473245	
5. fan pressure switch kit		(22)		398H473682		
refrigerant condenser	(Axial)	2	398H114815	398H114816	398H114817	
sigh glass		6		398H348024		
refrigerant filter		7	398H2	206224	398H206225	
tank / evaporator		27)	on request	on request	on request	
	P15 (1.5 barg)	(12)	on request			
pump	P50 (5 barg)	(12)	on request			
water manometer		(15)		398H354039		
refrigerant suction manometer		(16)		398H354038		
refrigerant discharge manometer		(17)		398H354038		
water outlet temperature sensor		(18)		398H275235		
evaporator temperature sensor		(19)	398H275235			
water level sensor		20	398H275924			
electronic control		21)		398H474002		
fan pressure switch		(PV3-4)		398H354119		
high pressure switch		23)		398H354052		

Component	(7.4 / 7.5)	HLS076	HLS090	HLS116		
low pressure switch	(24)	398H354054				
electrovalve	(28)	-		398H183104		
hot gas solenoide valve 1	36)		398H183104			
hot gas solenoide valve 2	37)		398H183104			
plate type heat exchanger	(41)	398H176840	398H176841	398H176842		
differential water pressure switch	(42)	398H354136				
local display	A2	398H275698				
main diconnector switch	QS		398H256428			
compressor automatic switch	QF1-2	398H256238	398H256240	398H256242		
fans/pump automatic switch	QF5-6		398H256233			
pump automatic switch	QF7		398H256243			
compressor contactor	KM1-2	398H256246 398H256353				
alarm relay	KA1-10	398H256152				
antifreeze heater contactor	KRA1	398H256243				
plastic capillary	-	398H370004				
1 /			398H370006			

Diagram circuit

