



# MVE HE SERIES\*

Storage in vapour phase nitrogen at - 150°C

Your right choice for  
Transfusion Centers,  
Haematology Departments  
and Cord Blood Banks

All models are fully equipped with  
gas bypass, back-up battery  
and Medical Device Certification,  
according to 93/42/CEE Directive



LARGE capacity



MVE-HE Series is manufactured  
to be compliant to the most critical  
needs of storage in vapor phase.  
With this solution, an high  
efficiency dewar is used as  
an heat pump, generating thermal  
exchange which maintains the  
dewar's average temperature  
as the lowest as possible

HE Series manufacturing quality is a  
warranty for setting a temperature  
under the lid (the hottest point of the  
dewar) at -190°C.  
Such performances are achieved  
with the application of a reduced  
diameter lid, which maintains anyway  
an excellent access to the biological  
samples with a revolving platform  
system.

optional step



\* MVE Chart products distribution is  
restricted to specific areas. Please  
contact SOL Cryobiology Division for  
inquiries.



**WARRANTY**  
2 years  
on mechanical components  
5 years  
on vacuum loss



**COMPLIANT**  
to 93/42/EEC  
Medical Device Directive

MODEL	MVE 815P 190 AF-GB MVE 815P 190F-GB-BB-MDD	MVE 818P 190 AF-GB MVE 818P 190F-GB-BB-MDD	MVE 819P 190 AF-GB MVE 819P 190F-GB-BB-MDD
<b>STORAGE CAPACITY</b>			
2 ml cryotubes (internal thread screw cap)	15600	18200	19500
<b>RACK NUMBER</b>			
100 cryotubes plastic cryoboxes (2 ml)	12	12	12
25 cryotubes plastic cryoboxes (2 ml)	4	4	4
Levels for single rack	12	14	15
<b>PERFORMANCES</b>			
Liquid nitrogen capacity (l)	370	420	463
Liquid nitrogen capacity (l) (under vapor platform)	52	55	55
<b>DIMENSIONS</b>			
Neck diameter (mm)	317	317	317
Useful internal height (mm)	673	781	877
Internal diameter (mm)	731	731	731
Overall height (mm)	1448	1556	1651
Door Width Requirement	813	813	813
Empty weight (Kg)	215	225	234
Full weight (Kg)	514	530	608
<b>BLOOD BAGS CAPACITY</b>			
Bags 25 ml (791 OS/U)	1224	1632	1836
Bags 50 ml (4R9951)	768	896	1024
Bags 250 ml (4R9953)	416	416	520
Bags 500 ml (4R9955)	304	304	380
Bags 200 ml (DF 200)	236	236	295



ACCESSORIES see page 52

AF = Full Auto; GB = Gas Bypass; BB = Battery Backup; MDD = Medical Devices

SAMPLES STORAGE IN VAPOUR PHASE NITROGEN



# MVE HE SERIES\*

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LARGE capacity

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5 years  
on vacuum loss



**COMPLIANT**  
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Medical Device Directive

MODEL	MVE 1536P 190 AF-GB MVE 1536P 190F-GB-BB-MDD	MVE 1539P 190 AF-GB MVE 1539P 190F-GB-BB-MDD	MVE 1539R 190 AF-GB MVE 1539R 190F-GB-BB-MDD
<b>STORAGE CAPACITY</b>			
2 ml cryotubes (internal thread screw cap)	36400	39200	39000
<b>RACK NUMBER</b>			
100 cryotubes plastic cryoboxes (2 ml)	24	16	26
25 cryotubes plastic cryoboxes (2 ml)	16	16	16
Levels for single rack	13	14	13
<b>PERFORMANCES</b>			
Liquid nitrogen capacity (l)	756	797	756
Liquid nitrogen capacity (l) (under vapor platform)	133	133	133
<b>DIMENSIONS</b>			
Neck diameter (mm)	445	445	445
Useful internal height (mm)	732	782	745
Internal diameter (mm)	978	978	983
Overall height (mm)	1556	1608	1393
Door Width Requirement	1067	1067	1066
Empty weight (Kg)	313	327	313
Full weight (Kg)	924	971	924
<b>BLOOD BAGS CAPACITY</b>			
Bags 25 ml (791 OS/U)	2905	3320	2786
Bags 50 ml (4R9951)	1488	1736	1446
Bags 250 ml (4R9953)	812	812	768
Bags 500 ml (4R9955)	608	608	576
Bags 200 ml (DF 200)	496	496	496

AF = Full Auto; GB = Gas Bypass; BB = Battery Backup; MDD = Medical Devices

MVE 1542R 190 AF-GB MVE 1542R 190F-GB-BB-MDD	MVE 1879P 190 AF-GB MVE 1879P 190F-GB-BB-MDD	MVE 1881R 190 AF-GB MVE 1881R 190F-GB-BB-MDD	MVE 1892P 190 AF-GB MVE 1892P 190F-GB-BB-MDD	MVE 1894R 190 AF-GB MVE 1894R 190F-GB-BB-MDD
42000	79950	81900	92250	94500
26	54	60	54	60
16	30	12	30	12
14	13	13	15	15
797	1540	1521	1736	1731
133	290	305	282	300
445	635	635	635	635
782	749	742	876	868
983	1422	1391	1391	1391
1608	1732	1732	1860	1860
1067	1524	1524	1524	1524
327	781	781	781	781
971	2191	2191	2211	2211
3184	5866	5628	6704	6432
1687	2952	2940	3936	3920
768	1584	1608	1980	2010
576	1104	1240	1380	1550
488	960	984	1200	1230

AF = Full Auto; GB = Gas Bypass; BB = Battery Backup; MDD = Medical Devices



ACCESSORIES see page 52



ACCESSORIES see page 52



# HAIER YDD SERIES

## Storage in vapour phase nitrogen



LARGE capacity

HAIER YDD Series for large scale storage is designed to ensure the maximum storage capacity with the minimum consumption of liquid nitrogen, thanks to the advanced vacuum and superinsulation technology.



**WARRANTY**  
5 years  
on vacuum loss



**COMPLIANT**  
to 93/42/EEC  
Medical Device Directive



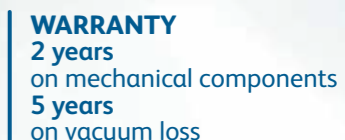
The temperature difference of the entire storage area does not exceed 10°C. The Cryosmart system is used for the complete monitoring and controlling.

MODEL BIOSAFE SERIES	YDD-300-326	YDD-550-445	YDD-800-460	YDD-1000-465	YDD-1300-635
<b>STORAGE CAPACITY</b>					
1.2 and 2 ml cryotubes in racks	13000	26000	42900	49500	58500
<b>RACK NUMBER</b>					
100 cryotubes plastic cryoboxes	12	24	32	32	54
25 cryotubes plastic cryoboxes	4	8	4	4	18
Levels for single rack	10	10	13	15	10
<b>PERFORMANCES</b>					
Liquid nitrogen capacity (l)	350	587	890	1014	1340
Liquid nitrogen capacity (l) (under vapor platform)	55	80	135	135	265
<b>DIMENSIONS</b>					
Useful height (mm)	1200	1321	980	950	997
Overall height (mm)	1180	1266	1559	1704	1398
External diameter (mm)	875	1104	1190	1190	1565
Neck diameter (mm)	326	445	460	465	635
Empty weight (Kg)	219	328	441	495	851
Full weight (Kg)	490	802	1160	1314	1934
<b>BLOOD BAGS CAPACITY</b>					
Bags 25 ml (791 OS/U)	1296	2376	3360	4320	4716
Bags 50 ml (4R9951)	792	1416	2072	2264	2916
Bags 250 ml (4R9953)	300	552	944	1180	1170
Bags 200 ml (DF200)	168	336	544	680	666
Bags 500 ml (4R9955)	192	408	649	800	828
Bags 700 ml	96	204	320	400	396





All models are fully equipped with gas bypass, back-up battery and Medical Device Certification, according to 93/42/CEE Directive

AE - Full Auto; GB - Gas Bypass; BB - Battery Backup; MDD - Medical Devices

**ACCESSORIES** see page 52



# CRYOTHERM BIOSAFE SERIES

## Samples storage in liquid phase nitrogen at -196°C

Your right choice for  
Transfusion Centers,  
Haematology Departments,  
Cord Blood Banks and  
IVF Centers



## LARGE capacity



The Biosafe Series is manufactured with the goal of obtaining the best performances in terms of storage in liquid nitrogen. The internal temperature is kept uniform between  $-196^{\circ}\text{C}$  to  $-190^{\circ}\text{C}$  near the lid.

**Biosafe Series** is optimized for a maximum in capacity at a minimum in dimensions. The large thermodynamically optimized and vacuum insulated lid in an attractive design allows access to the materials stored in a second.

Loading of samples is facilitated via the wide neck opening in the freely accessible storage space. Its robust construction of polished, corrosion-free stainless steel ensures a long service life and a very low evaporation rate. Further security is provided by a combined evacuation and safety valve. All dewars are equipped with ergonomic lifting/ swivel mechanism for the lid, lockable lid, and handles.



**WARRANTY**  
2 years  
on mechanical components  
5 years  
on vacuum loss



**COMPLIANT**  
to 93/42/EEC  
Medical Device Directive

MODEL	Biosafe 120	Biosafe 220	Biosafe 420	Biosafe 500	Biosafe 600	Biosafe 1000	Biosafe 1400
PERFORMANCES							
Geometric capacity (l)	151	251	420	490	690	960	1394
Geometric capacity under platform (l)	21	35	57	50	84	100	100
DIMENSIONS							
Useful height (mm)	625	625	625	800	680	680	1100
Overall height (mm)	1045	1180	1190	1314	1370	1440	1810
External diameter (mm)	560	710	900	890	1100	1300	1300
Internal diameter (mm)	514	664	854	795	970	1155	1155
Empty weight (Kg)	100	175	225	320	340	520	660
STORAGE CAPACITY							
2 ml cryotubes (d=12 mm) in cassettes	6750	13000	23100	26260	32680	46880	72760
2 ml cryotubes (d=12 mm) in cryoboxes	7000	130000	21750	22750	26400	41800	64600
5 ml cryotubes (d=12 mm) in cassettes	3375	6500	11550	12120	17780	25480	38250
50 ml blood bags and 2 ml cryotubes (d=12 mm) in cassettes	288 -	512 -	832 1500	on request -	768 -	1664 -	3120 -
500 ml blood bags and 2 ml cryotubes (d=12 mm) in cassettes	144 500	240 1500	480 500	480 -	528 -	864 -	1512 -
500 ml blood bags and 2 ml cryotubes (d=12 mm) in cassettes	75 750	150 500	270 500	on request -	345 -	450 -	900 -



## MVE CRYOSYSTEM SERIES\*

Samples storage in liquid phase nitrogen at -196°C



MEDIUM capacity



## HAIER YDS SMART SERIES\*

Samples storage in liquid phase nitrogen at -196°C



MEDIUM capacity

The Cryosystem Series has been designed with the aim of storing up to 6000 cryotubes 2 ml in liquid nitrogen.

The continuous research on materials and devices ensured low nitrogen consumption in medium capacity dewars, in order to meet the different needs of professionals. All the dewars are equipped with wheels and lateral handles to ease the transportation.

### Main features

- Narrow neck;
- Low static evaporation rate;
- Light aluminum structure;
- Easy access to biological samples;
- Predisposition for locker;
- Roller base for easy handling.

\* MVE Chart products distribution is restricted to specific areas. Please contact SOL Cryobiology Division for inquiries.



### WARRANTY

2 years  
on mechanical components  
3 years  
on vacuum loss



### COMPLIANT

to 93/42/EEC  
Medical Device  
Directive



MODEL	CRYOSYSTEM 750	CRYOSYSTEM 2000	CRYOSYSTEM 4000	CRYOSYSTEM 6000
<strong>STORAGE CAPACITY</strong>				
Racks number	6	4	4	6
100 tubes cryoboxes (2ml)	-	2000	4000	6000
25 tubes cryoboxes (2ml)	750	-	-	-
Boxes for single rack	5	5	10	10
<strong>PERFORMANCES</strong>				
Liquid nitrogen capacity (l)	47.4	61	121	175
Static evaporation rate (l/day)	0.39	0.85	0.99	0.99
Working duration (days)	76	38	70	104
<strong>DIMENSIONS</strong>				
Neck diameter (mm)	127	216	216	216
Overall height (mm)	673	692	965	963
External diameter (mm)	508	559	559	673
Empty weight (Kg)	19	26.3	36.7	46.7
Full weight (Kg)	57	82.5	136	193



ACCESSORIES see page 52

The Haier YDS Smart Series was created for the storage of cryoboxes in compact dewars.

This Series is supplied with 9x9 racks for cryoboxes (2 ml cryotubes). The advanced vacuum and superinsulation technology ensures high thermal efficiency with ultra-low LN2 evaporative losses.



### WARRANTY

5 years  
on vacuum loss



### COMPLIANT

to 93/42/EEC  
Medical Device  
Directive



MODEL	YDS-65-216-FZ	YDS-95-216-FZ	YDS-115-216-FZ	YDS-175-216-FZ
<strong>STORAGE CAPACITY</strong>				
Rack number	6	6	6	6
Level number	4	5	6	10
Boxes for single rack	24	30	36	60
Number of cryotubes	2400	3000	3600	6000
<strong>PERFORMANCES</strong>				
Liquid nitrogen capacity (l)	65	95	114	175
Static evaporation rate (l/day)	0.78	0.81	0.83	0.87
Working duration (days)	55	66	80	126
<strong>DIMENSIONS</strong>				
Neck diameter (mm)	216	216	216	216
Overall height (mm)	712	774	846	1060
External diameter (mm)	681	681	681	681
Empty weight (Kg)	38.5	41.3	42.3	53.8
Full weight (Kg)	80.8	112.4	132.8	198.5



## MVE XC SERIES\*

Samples storage in liquid phase nitrogen at -196°C



SMALL capacity

The MVE XC Series has been designed in order to ensure a high storage capacity and a low nitrogen consumption, with lightweight dewars easy to handle.

The dewars of the MVE XC Series, realized to broadly integrate durability and capacity requirements, are the best choice for the storage of a considerable number of samples.

\* MVE Chart products distribution is restricted to specific areas. Please contact SOL Cryobiology Division for inquiries.



**WARRANTY**  
2 years  
on mechanical components  
5 years  
on vacuum loss



**COMPLIANT**  
to 93/42/EEC  
Medical Device Directive



MODEL	XC 20 SIGNATURE	XC 21/6 E	XC 22/5	XC 32/8	XC 33/22
<b>STORAGE CAPACITY</b>					
Number of canisters	6	9	6	9	6
Number of straws 0.5 cc	879	3870	3666	3960	1764
Number of 1.2 and 2 ml vials (5/cane)	210	-	810	855	360
<b>PERFORMANCES</b>					
Liquid nitrogen capacity (l)	20.5	21	22.4	32	33.4
Static evaporation rate (l/day)	0.090	0.35	0.35	0.35	0.14
Working duration (days)	140	38	40	57	154
<b>DIMENSIONS</b>					
Neck diameter (mm)	55.4	89	97	97	70
Overall height (mm)	660	436	559	660	660
External diameter (mm)	368	464	368	464	464
Canister diameter (mm)	41.9	68	79	56	56
Canister height (mm)	279/127	127	279	279	279
Empty weight (Kg)	10	10.9	11.8	15.4	15.4
Full weight (Kg)	26.5	27.9	30	43.5	42.5



ACCESSORIES see page 52

XC 34/18	XC 34/18 PLUS	XC 43/28	XC 47/11/6	XC 47/11/10	XC 47/11/6 SQ
6	6	6	6	10	6 rectangular racks
3000	3000	1764	6216	5000	-
630	630	360	1320	1050	750 vials in 25 pcs box
					47.4
34.8	32.7	42.2	47.4	47.4	0.39
0.18	0.31	0.14	0.39	0.39	76
123	136	193	76	76	
					127
89	89	70	127	127	673
675	952	670	673	673	508
464	464	508	508	508	102
71	71	56	102	71	279
279	279	279	279	279	16.4
15.4	20.8	16.4	16.4	16.4	54.6
43.5	47.3	50.5	54.6	54.6	



ACCESSORIES see page 52



# MVE SC SERIES\*

Samples storage in liquid phase nitrogen at -196°C



SMALL capacity



**WARRANTY**  
2 years  
on mechanical components  
5 years  
on vacuum loss



**COMPLIANT**  
to 93/42/EEC  
Medical Device Directive

The MVE SC Series has been designed in order to ensure a small storage capacity with long storage duration and a low nitrogen consumption, with lightweight dewars easy to handle.

The dewars of the MVE SC Series, realized to broadly integrate durability and capacity requirements, are the best choice for the storage of samples in cryovials and straws.

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MODEL	SC 3/3	SC 8/5
<b>STORAGE CAPACITY</b>		
Number of canisters	6	6
Number of straws 0.5 cc	440	440
Number of 1.2 and 2 ml vials (5/cane)	-	-
<b>PERFORMANCES</b>		
Liquid nitrogen capacity (l)	3.6	8.4
Static evaporation rate (l/day)	0.13	0.15
Working duration (days)	17	35
<b>DIMENSIONS</b>		
Neck diameter (mm)	55.4	55.4
Overall height (mm)	406	470
External diameter (mm)	222	260
Canister diameter (mm)	41.9	41.9
Canister height (mm)	127	127
Empty weight (Kg)	3.6	5.3
Full weight (Kg)	65	12.1

**ACCESSORIES** see page 52

SC 11/7	SC 20/20 SIGNATURE	SC 33/26	SC 36/32	SC SUPER 2
6	6	6	6	6
879	879	879	879	879
210	210	150	150	210
11	20.5	33	36.5	24.5
0.16	0.09	0.13	0.1	0.085
43	150	182	224	180
55.4	55.4	55.4	55.4	55.4
549	660	657	690	716
260	368	464	464	368
41.9	41.9	41.9	41.9	41.9
279	279	279	279	279
7.7	10.2	15.4	15.4	12
16.6	26.7	42.4	44.8	31

**ACCESSORIES** see page 52



## HAIER YDS SERIES

Samples storage in liquid phase nitrogen at -196°C



SMALL capacity



## CONTROL PANELS CRYOLOGGER SERIES



**WARRANTY**  
5 years  
on vacuum loss



**COMPLIANT**  
to 93/42/EEC  
Medical Device Directive

The Haier YDS Series has been designed with a strong and lightweight aluminium structure with round canisters.

Provides two cryopreservation solutions for long-term static storage and transportation of biological samples. The narrow neck design and excellent thermal conductivity reduce evaporation loss of liquid nitrogen for extended storage time.



MODEL	YDS-2-30	YDS-10-80	YDS-20	YDS-30	YDS-35	YDS-47-127
<b>STORAGE CAPACITY</b>						
Number of canisters	3	6	6	6	6	10
Number of straws 0.5 cc	90	2040	792	792	792	4310
Number of 1.2 and 2 ml vials	-	-	-	-	-	-
<b>PERFORMANCES</b>						
Liquid nitrogen capacity (l)	2	10	20	30	35	47
Static evaporation rate (l/day)	0.06	0.18	0.10	0.11	0.11	0.33
Working duration (days)	21	35	126	172	200	90
<b>DIMENSIONS</b>						
Neck diameter (mm)	30	80	50	50	50	127
Overall height (mm)	378	540	656	655	695	718
External diameter (mm)	224	300	394	461	461	508
Empty weight (Kg)	2.9	6.5	11.7	12	14	15.4
Full weight (Kg)	4.5	14.7	28.1	36.6	42.7	54

The CryoLogger control panel, produced in Italy by SOL, is the ideal solution for the remote control (wireless mode) or local control (cable mode) of laboratory equipments, for example small and big dewars (temperatures and levels recording), freezers, mechanical refrigerators and incubators.

The control panel can be mounted on any dewar, for the real time monitoring of temperatures and nitrogen levels.

The system is equipped with a dual port and offers the possibility to monitor devices via PT1000 probes. The device is equipped with serial RS232 and RS485 ports to allow the interface with supervisory plants and monitoring softwares. Within the cryobiology applications, each CryoLogger monitors temperatures and level of up to 10 dewars and is used with the setting of visual and acoustic alarm thresholds.

The values of physical quantities detected by the system are acquired basing on the sampling frequency and vary from two seconds to an hour with a maximum capacity registration of 250,000 records: making a record every minute, the module is able to collect data for a continuous period up to 6 months.

LCD screen with low power consumption displays measured values and information such as the type of power supply used, the state of charge of the battery and the signal available for the transfer of data to a central server. The front buttons make it simple the use and programming activities.

The alarm signals, when a telephone dialer is on board, are transmitted via phone calls or SMS to on call operators, in order to act immediately in case of emergency.



# VAPOR SHIPPER SERIES\*

Samples transportation  
in vapor phase nitrogen at -150°C



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All the Vapor Shipper dewars can be also be shipped via flight, according to IATA and EN3373 regulations, if provided with a shipping carton (triple packaging).

MVE Vapor Shippers are designed for the safe transportation of biological samples at cryogenic (-150°C or colder) temperatures.

Manufactured with lightweight aluminum, they have a hydrophobic compound which absorbs the liquid nitrogen to ensure spillfree shipping. The employed materials ensure a longlasting quality. A protective shipping carton is available for all models, in order to ensure a safe

handling of the biological samples, according to the current regulations concerning biological samples transportation.

A data logger is available for all models (except the SC2/1V), ensuring the real-time traceability of the temperature inside the dewar.

The system is equipped with alarms to notify emergency situations.

A temperature probe (PT1000) fixed on the lid, controls the temperature in the hottest point of the dewar.

The samples can be carried with the insurance that the temperature is constantly monitored and that the LED display shows possible variations.



**WARRANTY**  
2 years  
on mechanical components  
3 years  
on vacuum loss



**COMPLIANT**  
to 93/42/EEC  
Medical Device Directive

MODEL	SC 2 / 1 V	SC 4 / 2 V	SC 4 / 3 V	SC 20 / 12 V	XC 20 / 3 V
<b>STORAGE CAPACITY</b>					
Number of canisters	1	1	1	6	4+1 central
Number of straws 0.5 cc	88	44	210	780	3750
Number of straws 0.5 cc (10/cane)					
Number of straws 0.5 cc (1 level bulk)					
Number of straws 0.25 cc	182	938	452	straws 0.5 cc: 1630	7410
Number of straws 0.25 cc (1 level bulk)					
Number of 1.2 and 2 ml vials (5/cane)	-	95	40	150	675
Number of 1.2 and 2 ml vials (6/cane)	-	102	48	180	840
Number of blood bags	-	-	-	-	-
<b>PERFORMANCES</b>					
Liquid nitrogen capacity (l)	1.5	3.6	4.3	12.3	6.2
Static evaporation rate (l/day)	0.19	0.26	0.2	0.09	0.3
Working duration (days)	8	13	21	85	16
<b>DIMENSIONS</b>					
Neck diameter (mm)	35	70	51	55	96.7
Overall height (mm)	343	468	492	652	559
External diameter (mm)	184	222	222	368	368
Canister diameter (mm)	31	67	46	38	80
Canister height (mm)	127	278	279	279	279
Empty weight (Kg)	2.7	4.5	5.2	12.8	11.3
Full weight (Kg)	4	7.7	8.7	20.1	16.3



ACCESSORIES see page 52

MINI MOOVER	CRYO MOOVER	CRYO SHIPPER	CRYO SHIPPER XC	CRYO SHIPPER EXTRA	CT 50	CT 250	CRYO SHIPPER 2000
1	7	1	1*	1 rack	1 rack	1 rack	1 rack (4 box/rack)
60	3080	-	-	-	-	-	-
88	4354	-	-	-	-	-	-
185	-	-	-	-	-	-	-
20	945	-	-	-	-	-	-
24	1134	500	966	500	-	-	-
-	NA	10	10	10	2 from 25 ml	2 from 250 ml	-
2.9	4.2	8.5	10	11.8	5	8	65
0.2	0.35	0.85	0.7	0.84	0.5	0.8	0.79
14	12	10	14	14	10	10	15
35	97	216	216	216	97	165	216
495	558	546	584	610	380	502	692
184	464	369	381	381	368	406	559
31	79	-	-	-	-	-	-
279	279	-	-	-	-	-	-
4.1	13.8	11.8	15	13.1	8	11	43.1
6.2	18.6	17.7	22	22.9	12	17.5	83.9

\* ordered separately



ACCESSORIES see page 52