

the better way to heat



Kältemittel				Wartung, Kontrolle			
Typ	Menge	nachgefüllt	recycelt oder aufgearbeitet	Fach-/Recycling-Firma, Adresse, Zertifikationsnummer	Kontroll-Ergebnis	Datum	Unterschrift, Stempel

* zutreffendes bitte ankreuzen

LOGBOOK

for heat pumps

according to Regulation (EU) 517/2014



Supplement to the Operating Manual



Notes on use of the logbook

According to EU regulation (EC) 517/2014, certain heat pumps must be checked for leakage and a logbook must be kept by law!

The criterion for whether it is necessary to perform leak testing and to keep a logbook is the CO₂ equivalent of the heat pump.

Please refer to the servicing overview to see whether the refrigerating circuit of your heat pump has to be tested for leaks and if so, at what intervals

NOTE

The logbook must only be kept if your heat pump has to be tested for leaks.

The values and details in the servicing overview are only applicable if the logbook was in the scope of supply of the heat pump. Otherwise the values must be calculated on the basis of the following formula.

You will find the required information on the nameplate of the heat pump.

No tests are required for R290.

$$\text{CO}_2\text{-equivalent [t]} = \text{GWP} \times \text{capacity[kg]} / 1000$$

CO ₂ equivalent	Test interval / months
< 5t	no test
< 10t	hermetic, no test
≥ 5t	not hermetic 12, with LRS* 24
≥ 10t	hermetic 12, with LRS* 24
≥ 50t	6, with LRS* 12

* LRS = Leakage recognition system

If you are obliged to keep a logbook for your heat pump and to perform leak testing as well, stick the nameplate (supplied with the heat pump) on the table provided in the logbook.

Leak tests must be performed by certified personnel (refrigeration system manufacturers)!

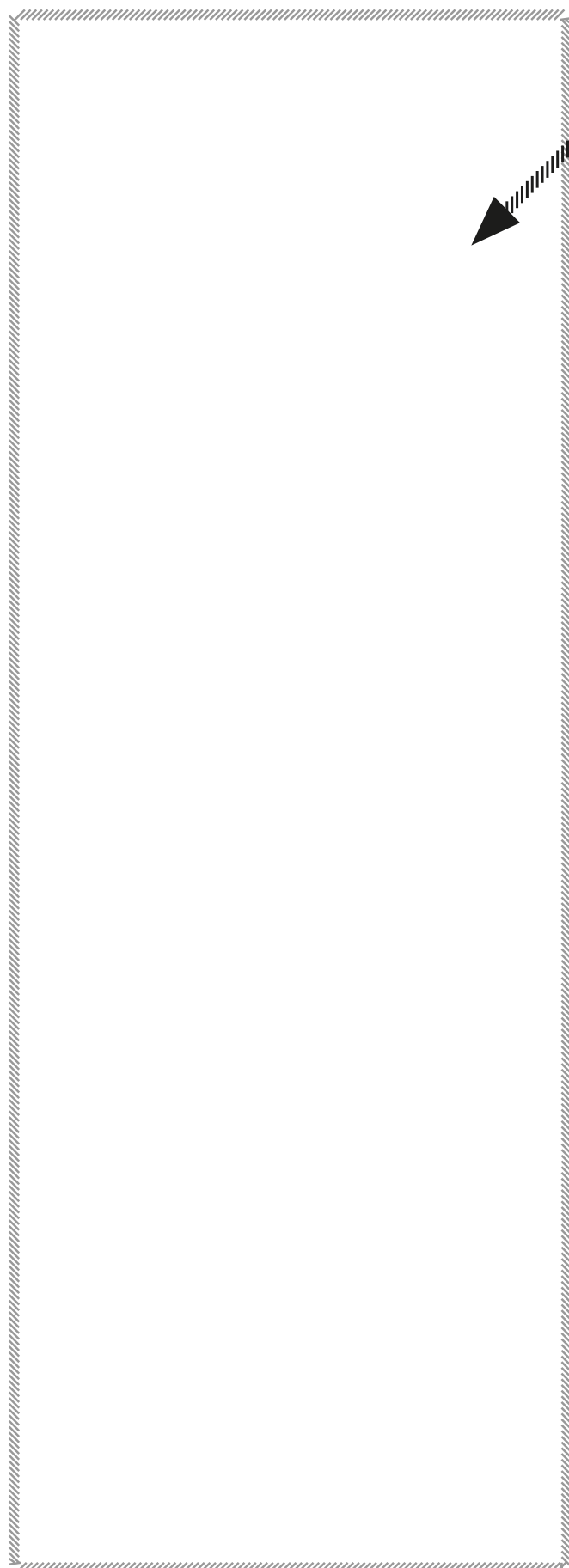
You can contact our customer service to arrange a leak test. The relevant costs are given in our price list.

All refrigerants we use, except R290, are fluorinated greenhouse gases.

The log book must be kept for 5 years after withdrawal from service

Contents

NOTES ON USE OF THE LOGBOOK	2
HEAT PUMP NAMEPLATE	3
SERVICING OVERVIEW	4
SERVICING RECORD	10
ADDITIONAL DETAILS FOR THE WITHDRAWAL FROM SERVICE (DECOMMISSIONING):.....	15



Heat pump nameplate

(Please stick in the nameplate included with the heat pump here, or alternatively please copy the relevant details from the nameplate and enter them in the column.)

Type

Art. No.

Serial number

Unit index

Refrigerant/capacity (charge).....

Hermetic

Non hermetic

EC Declaration of Conformity

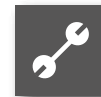


The respective EC Declaration of Conformity is in the heat pump operating manual



Servicing overview

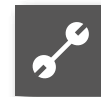
Article No.	Type designation alpha innotec	Refrigerant name	Charge [kg]	GWP value	Her- metic	CO2 equiva- lent [t CO2]	Test interval with leakage detection (on site) / months	Test in- terval without leakage detection / months
10053002	LW 101	R407c	4,8	1774	Y	8,5	-	-
10054202	LW 101A	R407c	4,8	1774	Y	8,5	-	-
10053102	LW 121	R407c	5,8	1774	Y	10,3	24	12
10054302	LW 121A	R407c	5,8	1774	Y	10,3	24	12
10058302	LW 121A/SX	R404A	3,6	3922	Y	14,1	24	12
10053202	LW 140	R407c	5,8	1774	Y	10,3	24	12
10053302	LW 140 L	R407c	5,8	1774	Y	10,3	24	12
10054402	LW 140A	R407c	5,8	1774	Y	10,3	24	12
10043202	LW 140A/RX	R407c	10,2	1774	Y	18,1	24	12
10046402	LW 150	R404A	5,6	3922	N	22	24	12
10062301	LW 160H/V	R410A	3,8	2088	Y	7,9	-	-
10062501	LW 160H-A/V	R410A	3,8	2088	Y	7,9	-	-
10062401	LW 160HL/V	R410A	3,8	2088	Y	7,9	-	-
10064701	LW 161H/V	R410A	3,8	2088	Y	7,9	-	-
10064901	LW 161H-A/V	R410A	3,8	2088	Y	7,9	-	-
10064801	LW 161HL/V	R410A	3,8	2088	Y	7,9	-	-
10053402	LW 180	R407c	6,8	1774	Y	12,1	24	12
10054502	LW 180A	R407c	6,8	1774	Y	12,1	24	12
10053502	LW 180L	R407c	6,8	1774	Y	12,1	24	12
10053602	LW 251	R407c	9,8	1774	Y	17,4	24	12
10054602	LW 251A	R407c	9,8	1774	Y	17,4	24	12
10053702	LW 251L	R407c	9,8	1774	Y	17,4	24	12
10053802	LW 310	R404A	10	3922	N	39,2	24	12
10054702	LW 310A	R404A	10	3922	N	39,2	24	12
10053902	LW 310L	R404A	10	3922	N	39,2	24	12
10047402	LW 380/1	R404A	12,5	3922	N	49	24	12
10047502	LW 380L/1	R404A	12,5	3922	N	49	24	12
10054002	LW 71A	R404A	2,4	3922	Y	9,4	-	-
10054102	LW 81A	R404A	2,8	3922	Y	11	24	12
10058102	LW 81A/SX	R404A	2,6	3922	Y	10,2	24	12
10043102	LW90A/RX	R407c	6,8	1774	Y	12,1	24	12
10077741	LWAV 122R3	R410A	3,6	2088	Y	7,5	-	-
10077641	LWAV 82R1/3	R410A	3	2088	Y	6,3	-	-
10044226	LWC 100	R404A	4,1	3922	Y	16,1	24	12
10044246	LWC 100	R404A	4,1	3922	Y	16,1	24	12
10044326	LWC 120	R404A	4,5	3922	Y	17,6	24	12
10044346	LWC 120	R404A	4,5	3922	Y	17,6	24	12
10044026	LWC 60	R407c	2,95	1774	Y	5,2	-	-
10044046	LWC 60	R407c	2,95	1774	Y	5,2	-	-



Article No.	Type designation alpha innotec	Refrigerant name	Charge [kg]	GWP value	Her- metic	CO2 equiva- lent [t CO2]	Test interval with leakage detection (on site) / months	Test in- terval without leakage detection / months
10044126	LWC 80	R407c	3,2	1774	Y	5,7	-	-
10044146	LWC 80	R407c	3,2	1774	Y	5,7	-	-
10077141	LWCV 122R3	R410A	3,6	2088	Y	7,5	-	-
10077041	LWCV 82R1/3	R410A	3	2088	Y	6,3	-	-
100750	LWP 450AR3	R410A	23	2088	Y	48	24	12
10077341	LWV 122R3	R410A	3,6	2088	Y	7,5	-	-
10077241	LWV 82R1/3	R410A	3	2088	Y	6,3	-	-
10071342	PWZS 102H1S	R410A	1,84	2088	Y	3,8	-	-
10065842	PWZS 102H2S	R410A	1,84	2088	Y	3,8	-	-
10065342	PWZS 102H3S	R410A	1,98	2088	Y	4,1	-	-
10065442	PWZS 122H3S	R410A	2,25	2088	Y	4,7	-	-
10071442	PWZS 132H1S	R410A	2,13	2088	Y	4,4	-	-
10065942	PWZS 132H2S	R410A	2,13	2088	Y	4,4	-	-
10071042	PWZS 42H1S	R410A	1,05	2088	Y	2,2	-	-
10065542	PWZS 42H2S	R410A	1,05	2088	Y	2,2	-	-
10065041	PWZS 42H3S	R410A	1,05	2088	Y	2,2	-	-
10071142	PWZS 62H1S	R410A	1,35	2088	Y	2,8	-	-
10065642	PWZS 62H2S	R410A	1,35	2088	Y	2,8	-	-
10065141	PWZS 62H3S	R410A	1,42	2088	Y	3	-	-
10071242	PWZS 82H1S	R410A	1,63	2088	Y	3,4	-	-
10065742	PWZS 82H2S	R410A	1,63	2088	Y	3,4	-	-
10065241	PWZS 82H3S	R410A	1,72	2088	Y	3,6	-	-
10075941	PWZSV 122H1S	R407c	2	1774	Y	3,5	-	-
10075841	PWZSV 122H2S	R407c	2	1774	Y	3,5	-	-
10075441	PWZSV 122H3S	R407c	2	1774	Y	3,5	-	-
10075541	PWZSV 162H3S	R407c	2,2	1774	Y	3,9	-	-
10075741	PWZSV 62H1S	R407c	1,16	1774	Y	2,1	-	-
10075641	PWZSV 62H2S	R407c	1,16	1774	Y	2,1	-	-
10075341	PWZSV 62H3S	R407c	1,16	1774	Y	2,1	-	-
10076041	PWZSV 92H1S	R407c	1,25	1774	Y	2,2	-	-
10076141	PWZSV 92H2S	R407c	1,25	1774	Y	2,2	-	-
10076241	PWZSV 92H3S	R407c	1,25	1774	Y	2,2	-	-
10074342	SW 102H1	R410A	1,84	2088	Y	3,8	-	-
10070342	SW 102H3	R410A	1,98	2088	Y	4,1	-	-
10070442	SW 122H3	R410A	2,25	2088	Y	4,7	-	-
10074442	SW 132H1	R410A	2,13	2088	Y	4,4	-	-
10051701	SW 140H-EKZ	R134a	4,6	1430	Y	6,6	-	-
10070542	SW 142H3	R410A	2,38	2088	Y	5	-	-
10070642	SW 172H3	R410A	2,65	2088	Y	5,5	-	-



Article No.	Type designation alpha innotec	Refrigerant name	Charge [kg]	GWP value	Her- metic	CO2 equiva- lent [t CO2]	Test interval with leakage detection (on site) / months	Test in- terval without leakage detection / months
10070742	SW 192H3	R410A	2,8	2088	Y	5,8	-	-
10051801	SW 200H-EKZ	R134a	5,2	1430	N	7,4	24	12
10074642	SW 232H3	R410A	3,2	2088	Y	6,7	-	-
10074742	SW 262H3	R410A	3,3	2088	Y	6,9	-	-
10052501	SW 280H1-EKZ	R417A	6,85	2347	N	16,1	24	12
10074842	SW 302H3	R410A	3,7	2088	Y	7,7	-	-
10052001	SW 330-EKZ	R407c	6,85	1774	N	12,2	24	12
10074042	SW 42H1	R410A	1,05	2088	Y	2,2	-	-
10070041	SW 42H3	R410A	1,05	2088	Y	2,2	-	-
10074142	SW 62H1	R410A	1,35	2088	Y	2,8	-	-
10070141	SW 62H3	R410A	1,42	2088	Y	3	-	-
10074242	SW 82H1	R410A	1,63	2088	Y	3,4	-	-
10070241	SW 82H3	R410A	1,72	2088	Y	3,6	-	-
10073342	SWC 102H1	R410A	1,84	2088	Y	3,8	-	-
10068342	SWC 102H3	R410A	1,98	2088	Y	4,1	-	-
10069342	SWC 102K3	R410A	1,98	2088	Y	4,1	-	-
10045302	SWC 120S	R407c	2,4	1774	Y	4,3	-	-
10068442	SWC 122H3	R410A	2,25	2088	Y	4,7	-	-
10069442	SWC 122K3	R410A	2,25	2088	Y	4,7	-	-
10073442	SWC 132H1	R410A	2,13	2088	Y	4,4	-	-
10045402	SWC 140S	R407c	2,7	1774	Y	4,8	-	-
10068542	SWC 142H3	R410A	2,38	2088	Y	5	-	-
10069542	SWC 142K3	R410A	2,38	2088	Y	5	-	-
10068642	SWC 172H3	R410A	2,65	2088	Y	5,5	-	-
10069642	SWC 172K3	R410A	2,65	2088	Y	5,5	-	-
10068742	SWC 192H3	R410A	2,8	2088	Y	5,8	-	-
10069742	SWC 192K3	R410A	2,8	2088	Y	5,8	-	-
10073042	SWC 42H1	R410A	1,05	2088	Y	2,2	-	-
10068041	SWC 42H3	R410A	1,05	2088	Y	2,2	-	-
10069041	SWC 42K3	R410A	1,05	2088	Y	2,2	-	-
10073142	SWC 62H1	R410A	1,35	2088	Y	2,8	-	-
10068141	SWC 62H3	R410A	1,42	2088	Y	3	-	-
10069141	SWC 62K3	R410A	1,42	2088	Y	3	-	-
10073242	SWC 82H1	R410A	1,63	2088	Y	3,4	-	-
10068241	SWC 82H3	R410A	1,72	2088	Y	3,6	-	-
10069241	SWC 82K3	R410A	1,72	2088	Y	3,6	-	-
10074941	SWCV 122H1	R407c	2	1774	Y	3,5	-	-
10072841	SWCV 122H3	R407c	2	1774	Y	3,5	-	-
10072941	SWCV 122K3	R407c	2	1774	Y	3,5	-	-



Article No.	Type designation alpha innotec	Refrigerant name	Charge [kg]	GWP value	Her- metic	CO2 equiva- lent [t CO2]	Test interval with leakage detection (on site) / months	Test in- terval without leakage detection / months
10071641	SWCV 162H3	R407c	2,2	1774	Y	3,9	-	-
10071841	SWCV 162K3	R407c	2,2	1774	Y	3,9	-	-
10071941	SWCV 62H1	R407c	1,16	1774	Y	2,1	-	-
10071541	SWCV 62H3	R407c	1,16	1774	Y	2,1	-	-
10071741	SWCV 62K3	R407c	1,16	1774	Y	2,1	-	-
10076941	SWCV 92H1	R407c	1,25	1774	Y	2,2	-	-
10076741	SWCV 92H3	R407c	1,25	1774	Y	2,2	-	-
10076841	SWCV 92K3	R407c	1,25	1774	Y	2,2	-	-
10051601	SWP 1000H-EKZ	R134a	17,6	1430	N	25,2	24	12
10051101	SWP 1100-EKZ	R407c	19	1774	N	33,7	24	12
10051201	SWP 1250-EKZ	R407c	18,8	1774	N	33,4	24	12
10051301	SWP 1600-EKZ	R407c	20,7	1774	N	36,7	24	12
10061802	SWP 291H	R134a	6,7	1430	Y	9,6	-	-
10050801	SWP 330H-EKZ	R134a	5,4	1430	N	7,7	24	12
10052301	SWP 370H1-EKZ	R417A	9,2	2347	N	21,6	24	12
10061402	SWP 371	R410A	7,2	2088	Y	15	24	12
10052101	SWP 420H1-EKZ	R417A	11,5	2347	N	27	24	12
10050001	SWP 430-EKZ	R407c	8	1774	N	14,2	24	12
10061502	SWP 451	R410A	8,2	2088	Y	17,1	24	12
10050101	SWP 470-EKZ	R407c	9	1774	N	16	24	12
10052401	SWP 480H1-EKZ	R417A	11,2	2347	N	26,3	24	12
10050201	SWP 540-EKZ	R407c	10,2	1774	N	18,1	24	12
10062102	SWP 561H	R134a	12,8	1430	Y	18,3	24	12
10061602	SWP 581	R410A	11,2	2088	Y	23,4	24	12
10050301	SWP 600-EKZ	R407c	11	1774	N	19,5	24	12
10050401	SWP 670-EKZ	R407c	12,5	1774	N	22,2	24	12
10061702	SWP 691	R410A	13,4	2088	Y	28	24	12
10052201	SWP 730H1-EKZ	R417A	15,8	2347	N	37,1	24	12
10050501	SWP 820-EKZ	R407c	13,5	1774	N	23,9	24	12
10051501	SWP 850H-EKZ	R134a	17	1430	N	24,3	24	12
10037704	SWP1000H	R134a	17,6	1430	N	25,2	24	12
10037204	SWP1100	R407c	19	1774	N	33,7	24	12
10037304	SWP1250	R407c	18,8	1774	N	33,4	24	12
10037404	SWP1600	R407c	20,7	1774	N	36,7	24	12
10037504	SWP700H	R134a	15,5	1430	N	22,2	24	12
10037604	SWP850H	R134a	17	1430	N	24,3	24	12
10062201	WWB 20	R134a	0,48	1430	Y	0,7	-	-
10062901	WWB 21	R134a	0,48	1430	Y	0,7	-	-
10048141	WWC 100H/X	R407c	2,95	1774	Y	5,2	-	-



Article No.	Type designation alpha innotec	Refrigerant name	Charge [kg]	GWP value	Her- metic	CO2 equiva- lent [t CO2]	Test interval with leakage detection (on site) / months	Test in- terval without leakage detection / months
10048242	WWC 130H/X	R407c	3,5	1774	Y	6,2	-	-
10048342	WWC 160H/X	R407c	3,8	1774	Y	6,7	-	-
10048442	WWC 190H/X	R407c	4,3	1774	Y	7,6	-	-
10048542	WWC 220H/X	R407c	4,5	1774	Y	8	-	-
10048642	WWC 280X	R407c	4,4	1774	Y	7,8	-	-
10048742	WWC 440X	R407c	8,4	1774	N	14,9	24	12
10066342	WZS 102H3M	R410A	1,98	2088	Y	4,1	-	-
10067342	WZS 102H3M	R410A	1,98	2088	Y	4,1	-	-
10066842	WZS 102K3M	R410A	1,98	2088	Y	4,1	-	-
10067842	WZS 102K3M	R410A	1,98	2088	Y	4,1	-	-
10066442	WZS 122H3M	R410A	2,25	2088	Y	4,7	-	-
10067442	WZS 122H3M	R410A	2,25	2088	Y	4,7	-	-
10066942	WZS 122K3M	R410A	2,25	2088	Y	4,7	-	-
10067942	WZS 122K3M	R410A	2,25	2088	Y	4,7	-	-
10066041	WZS 42H3M	R410A	1,05	2088	Y	2,2	-	-
10067041	WZS 42H3M	R410A	1,05	2088	Y	2,2	-	-
10066541	WZS 42K3M	R410A	1,05	2088	Y	2,2	-	-
10067541	WZS 42K3M	R410A	1,05	2088	Y	2,2	-	-
10066141	WZS 62H3M	R410A	1,42	2088	Y	3	-	-
10067141	WZS 62H3M	R410A	1,42	2088	Y	3	-	-
10066641	WZS 62K3M	R410A	1,42	2088	Y	3	-	-
10067641	WZS 62K3M	R410A	1,42	2088	Y	3	-	-
10066241	WZS 82H3M	R410A	1,72	2088	Y	3,6	-	-
10067241	WZS 82H3M	R410A	1,72	2088	Y	3,6	-	-
10066741	WZS 82K3M	R410A	1,72	2088	Y	3,6	-	-
10067741	WZS 82K3M	R410A	1,72	2088	Y	3,6	-	-
10073641	WZSV 122H3M	R407c	2	1774	Y	3,5	-	-
10073841	WZSV 122H3M	R407c	2	1774	Y	3,5	-	-
10073741	WZSV 122K3M	R407c	2	1774	Y	3,5	-	-
10073941	WZSV 122K3M	R407c	2	1774	Y	3,5	-	-
10072141	WZSV 162H3M	R407c	2,2	1774	Y	3,9	-	-
10072541	WZSV 162H3M	R407c	2,2	1774	Y	3,9	-	-
10072341	WZSV 162K3M	R407c	2,2	1774	Y	3,9	-	-
10072741	WZSV 162K3M	R407c	2,2	1774	Y	3,9	-	-
10072041	WZSV 62H3M	R407c	1,16	1774	Y	2,1	-	-
10072441	WZSV 62H3M	R407c	1,16	1774	Y	2,1	-	-
10072241	WZSV 62K3M	R407c	1,16	1774	Y	2,1	-	-
10072641	WZSV 62K3M	R407c	1,16	1774	Y	2,1	-	-



Article No.	Type designation alpha innotec	Refrigerant name	Charge [kg]	GWP value	Her- metic	CO2 equiva- lent [t CO2]	Test interval with leakage detection (on site) / months	Test in- terval without leakage detection / months
10072441	WZSV 92H3M	R407c	1,25	1774	Y	2,2	-	-
10072241	WZSV 92K3M	R407c	1,25	1774	Y	2,2	-	-
10076441	WZSV 92K3M	R407c	1,25	1774	Y	2,2	-	-

Key:

- no test
- Y hermetic
- N not hermetic

Specifications for devices for which this logbook was not in the scope of supply:								
Article No.	Type designation alpha innotec	Refrigerant name	Charge [kg]	GWP value	Her- metic	CO2 equivalent [t CO2]	Test inter- val with leakage detection (on site) / months	Test interval without leakage detection / months



Servicing record

Refrigerant		Other specifications						
Type/ Quantity	Event*)	Specialist/Recycling firm, address	Certification number	Result	Event**)	Date	Signature, stamp	

**) 5 = installation, 6 = control, 7 = repair, 8 = decommissioning

*) 1 = returned, 2 = reprocessed, 3 = refilled, 4 = recycled



Servicing record

Refrigerant		Other specifications						
Type/ Quantity	Event*)	Specialist/Recycling firm, address	Certification number	Result	Event**)	Date	Signature, stamp	

*) 1 = returned, 2 = reprocessed, 3 = refilled, 4 = recycled

**) 5 = installation, 6 = control, 7 = repair, 8 = decommissioning



Servicing record

Refrigerant		Other specifications						
Type/ Quantity	Event*)	Specialist/Recycling firm, address	Certification number	Result	Event**)	Date	Signature, stamp	

**) 5 = installation, 6 = control, 7 = repair, 8 = decommissioning

*) 1 = returned, 2 = reprocessed, 3 = refilled, 4 = recycled



Servicing record

Refrigerant		Other specifications						
Type/Quantity	Event*)	Specialist/Recycling firm, address	Certification number	Result	Event**)	Date	Signature, stamp	

*) 1 = returned, 2 = reprocessed, 3 = refilled, 4 = recycled

**) 5 = installation, 6 = control, 7 = repair, 8 = decommissioning





Additional details for the withdrawal from service (decommissioning):



ait-deutschland GmbH
Industriestraße 3
95359 Kasendorf, Germany

E info@alpha-innotec.de
W www.alpha-innotec.de



alpha innotec – an ait-deutschland GmbH brand