

**Prüfbedingung**  
Test condition

**A-15/Wxx-49 colder G**

**Prüfnummer**  
Test number

**LW-458-19-71**

Messgrößen Measured variables	Einheit Unit	Mittelwert Mean value	abs. Fehler absolute error	rel. Fehler relative error
<b>1 Heizleistung</b> (heating capacity) inkl. Umwälzpumpe (included circulation pump)	W	<b>7557</b>	± 92	± 1.22%
<b>a Heizleistung</b> (heating capacity)	W	7578	± 91	
<b>b Lufteintrittstemperatur</b> (air inlet temperature)	°C	-15.00	± 0.05	
<b>Luftaustrittstemperatur</b> (air outlet temperature)	°C	-16.19	± 0.22	
<b>Luftdruck</b> (air pressure)	hPa	972	± 19	
<b>Relative Luftfeuchtigkeit</b> (relative humidity)	%	69.5	± 2.1	
<b>c Rücklauftemperatur</b> (water inlet temperature)	°C	40.99	± 0.05	
<b>Vorlauftemperatur</b> (water outlet temperature)	°C	49.11	± 0.05	
<b>Massenstrom</b> (mass flow)	kg h <sup>-1</sup>	803.5	± 4.0	
<b>Hydraulischer Druckabfall</b> (hydraulic pressure drop)	kPa	-18.56	± -0.46	
<b>d Abtaudauer</b> (period of defrosting)	min	-		
<b>Heizdauer</b> (period of heating)	min	-		
<b>Relative Abtaudauer</b> (relative duration of defrosting period)	%	-		
<b>Abtauleistung</b> (defrosting output)	W	-	± -	± -
<b>e Niederdruck</b> (low pressure)	bara	-	± -	
<b>Sauggastemperatur</b> (suction gas temperature)	°C	-	± -	
<b>Hochdruck</b> (high pressure)	bara	-	± -	
<b>Heissgastemperatur</b> (hot gas temperature)	°C	-	± -	
<b>Flüssigkeitstemperatur</b> (condenser outlet temperature)	°C	-	± -	
<b>2 Wirkleistung total</b> (total power input) inkl. Umwälzpumpe (included circulation pump)	W	<b>3738</b>	± 60	± 1.62%
<b>Wirkleistung</b> (power input)	W	3763	± 59	
<b>Spannung</b> (voltage)	V	234.0	± 0.4	
<b>Stromaufnahme</b> (current consumption)	A	5.77	± 0.26	
<b>Scheinleistung</b> (apparent output)	VA	4054	± 56	
<b>Leistungsfaktor cosp</b> (power factor)	-	0.93	± 0.01	
<b>3 COP</b> (COP)	-	<b>2.022</b>	± 0.041	± 2.03%
<b>4 Umgebungstemperatur</b> (ambient temperature)	°C	18.9	± 1.5	
<b>5 Prüfdauer</b> (test duration)	hh:mm:ss	01:10:00		
<b>Prüfbeginn</b> (beginning of test)	hh:mm:ss	08:25:30	13.12.2019	2019-12-13
<b>Prüfende</b> (end of test)	hh:mm:ss	09:35:30	13.12.2019	2019-12-13

**6 Bemerkung** (remark)

- Messung wurde mit integrierter UWP durchgeführt / Measurement is carry out with internal installation pump
- Kompressorfrequenz / compressor speed = 81 Hz

**7 Prüfer** (supervisor) R. Rankwiler

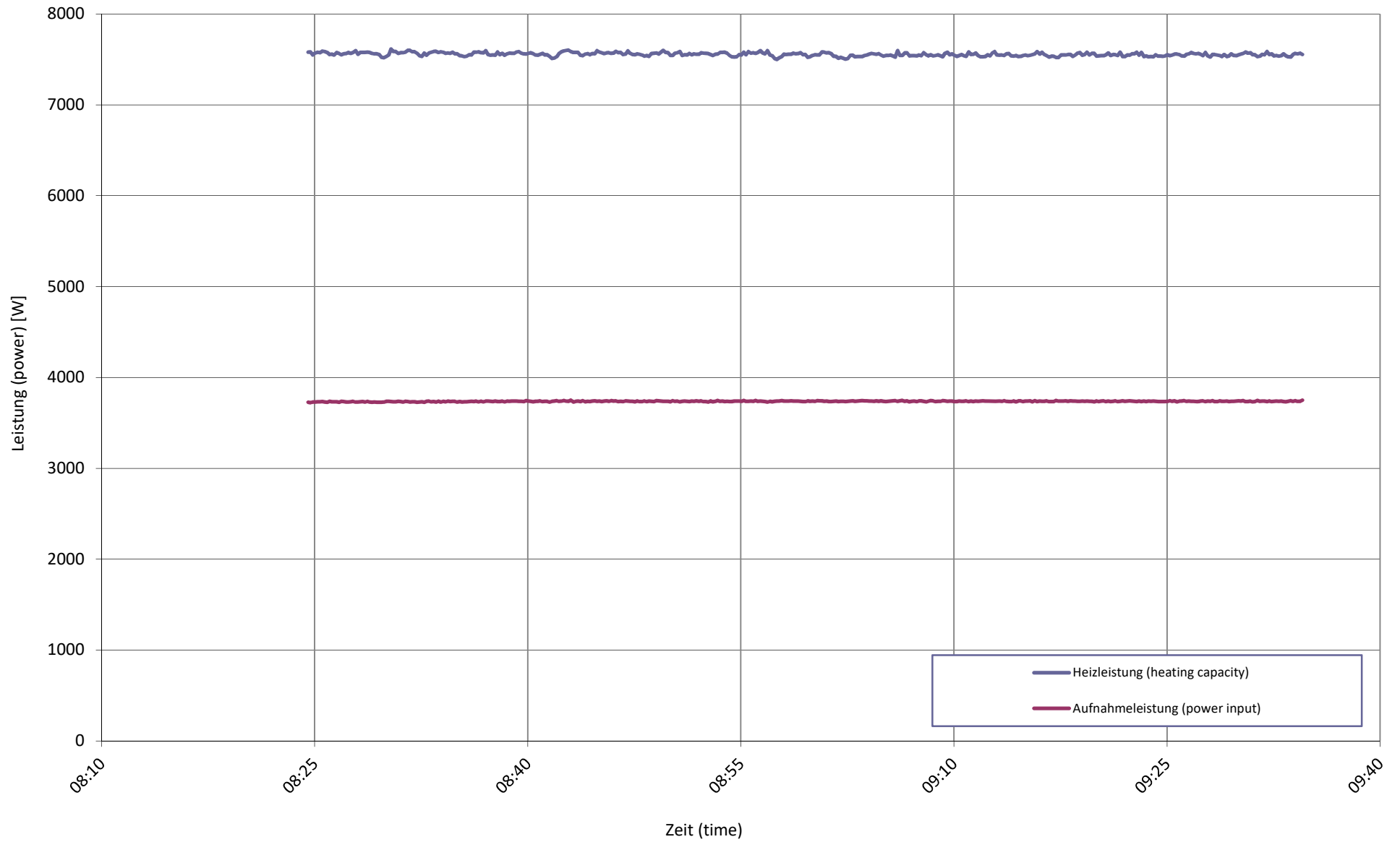
**Prüfnorm** (test standard)

EN 14511-2  
EN 14511-3  
EN 14511-4 clause 4.6  
EN 14825

passed  
passed  
passed  
passed

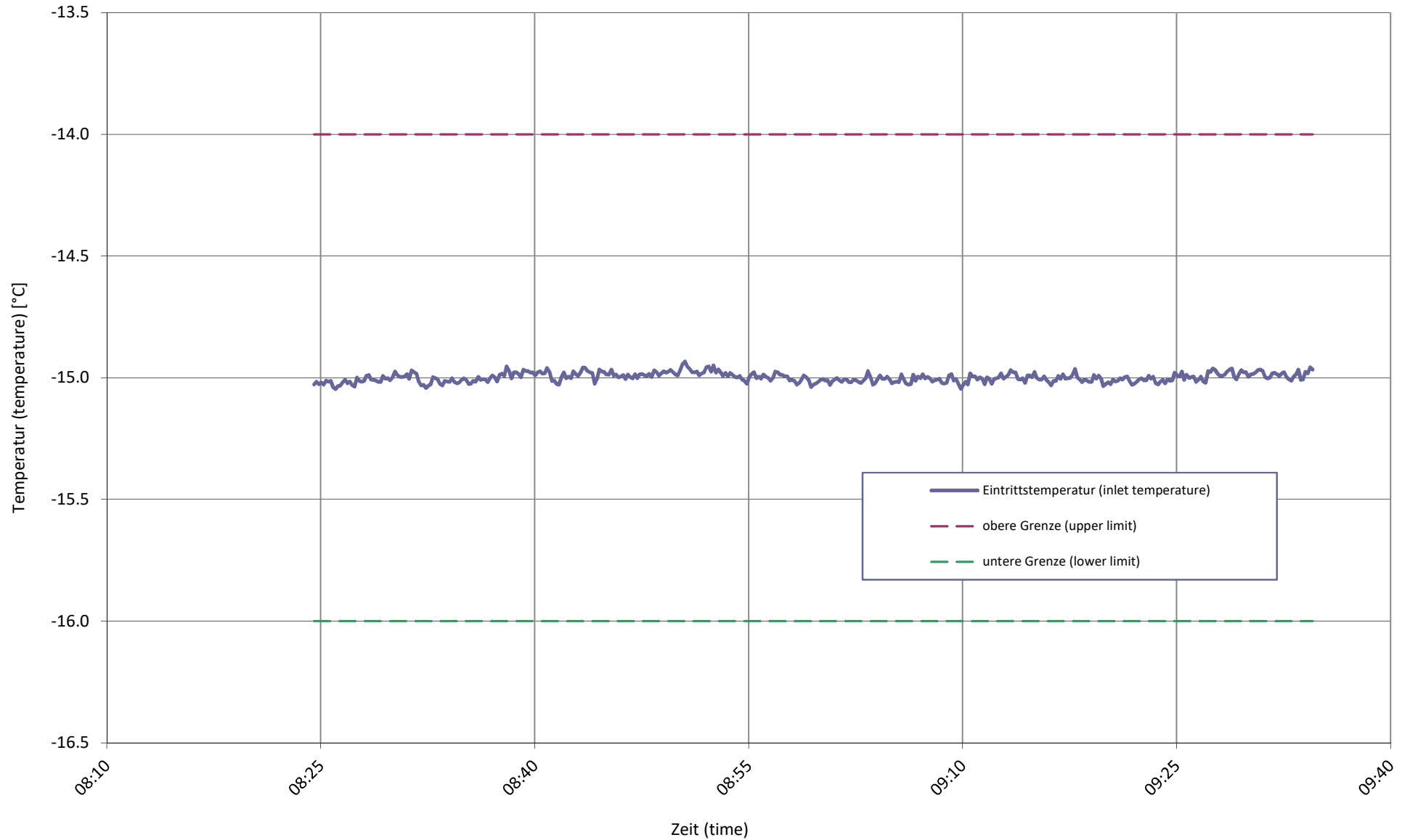
**Wärme- und Aufnahmeleistung bei**  
heating capacity and input power at

# A-15/Wxx-49 colder G



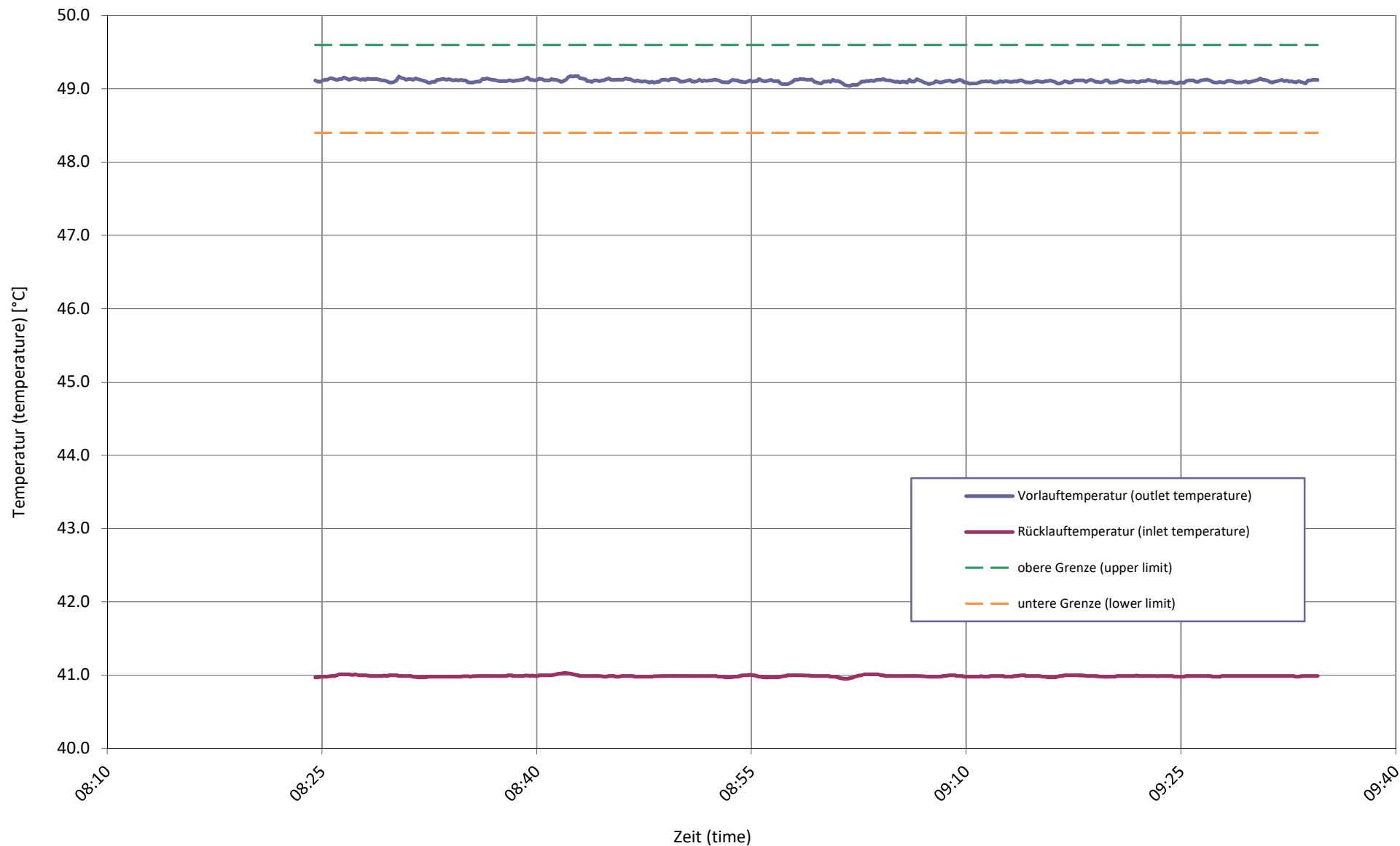
Quellentemperatur bei  
source temperature at

# A-15/Wxx-49 colder G



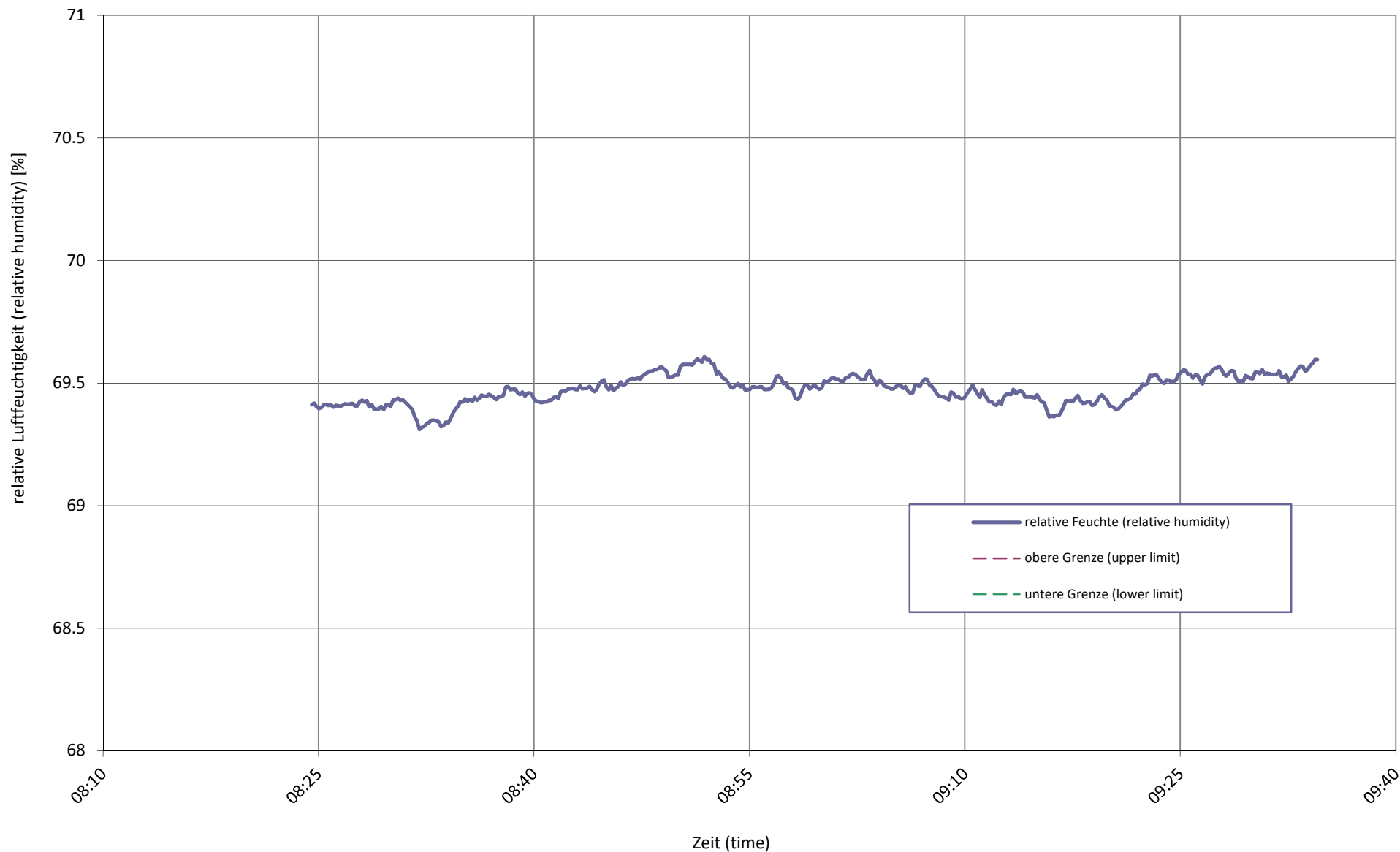
Senktemperatur bei  
sink temperature at

# A-15/Wxx-49 colder G



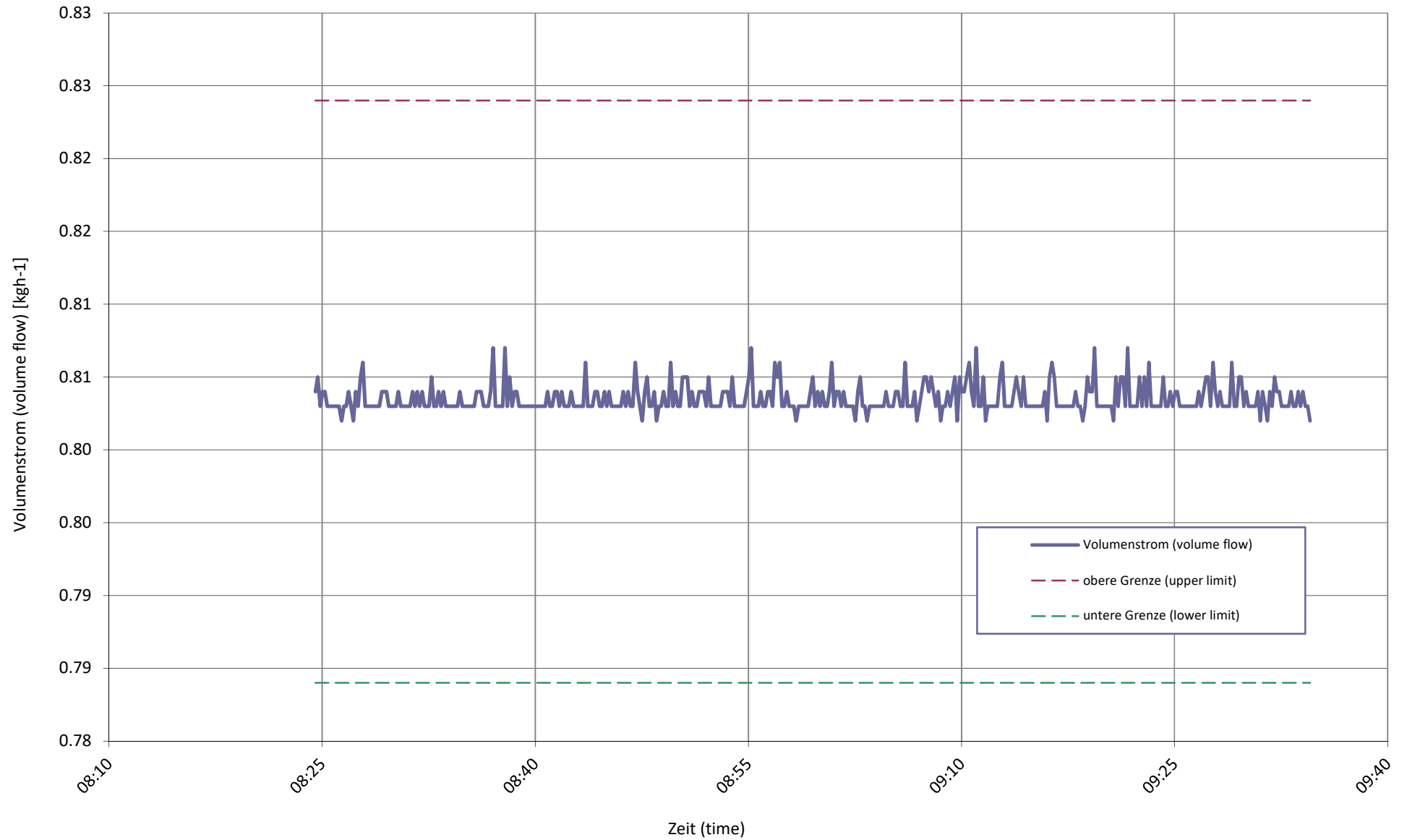
relative Luftfeuchtigkeit bei  
relative humidity at

# A-15/Wxx-49 colder G



Senkenmassenstrom bei  
sink mass flow at

# A-15/Wxx-49 colder G



**Prüfbedingung**  
Test condition

**A-18/Wxx-52.2 Tbiv colder**

**Prüfnummer**  
Test number

**LW-458-19-71**

Messgrößen Measured variables	Einheit Unit	Mittelwert Mean value	abs. Fehler absolute error	rel. Fehler relative error
<b>1 Heizleistung</b> (heating capacity) inkl. Umwälzpumpe (included circulation pump)	W	<b>8218</b>	± 97	± 1.18%
<b>a Heizleistung</b> (heating capacity)	W	8239	± 96	
<b>b Lufteintrittstemperatur</b> (air inlet temperature)	°C	-18.01	± 0.04	
<b>Luftaustrittstemperatur</b> (air outlet temperature)	°C	-19.52	± 0.20	
<b>Luftdruck</b> (air pressure)	hPa	972	± 19	
<b>Relative Luftfeuchtigkeit</b> (relative humidity)	%	68.7	± 2.1	
<b>c Rücklauftemperatur</b> (water inlet temperature)	°C	43.37	± 0.05	
<b>Vorlauftemperatur</b> (water outlet temperature)	°C	52.18	± 0.06	
<b>Massenstrom</b> (mass flow)	kg h <sup>-1</sup>	804.6	± 4.0	
<b>Hydraulischer Druckabfall</b> (hydraulic pressure drop)	kPa	-18.51	± -0.46	
<b>d Abtaudauer</b> (period of defrosting)	min	-		
<b>Heizdauer</b> (period of heating)	min	-		
<b>Relative Abtaudauer</b> (relative duration of defrosting period)	%	-		
<b>Abtauleistung</b> (defrosting output)	W	-	± -	± -
<b>e Niederdruck</b> (low pressure)	bara	-	± -	
<b>Sauggastemperatur</b> (suction gas temperature)	°C	-	± -	
<b>Hochdruck</b> (high pressure)	bara	-	± -	
<b>Heissgastemperatur</b> (hot gas temperature)	°C	-	± -	
<b>Flüssigkeitstemperatur</b> (condenser outlet temperature)	°C	-	± -	
<b>2 Wirkleistung total</b> (total power input) inkl. Umwälzpumpe (included circulation pump)	W	<b>4514</b>	± 62	± 1.36%
<b>Wirkleistung</b> (power input)	W	4539	± 60	
<b>Spannung</b> (voltage)	V	232.6	± 0.4	
<b>Stromaufnahme</b> (current consumption)	A	7.01	± 0.26	
<b>Scheinleistung</b> (apparent output)	VA	4893	± 56	
<b>Leistungsfaktor cosp</b> (power factor)	-	0.93	± 0.01	
<b>3 COP</b> (COP)	-	<b>1.820</b>	± 0.033	± 1.80%
<b>4 Umgebungstemperatur</b> (ambient temperature)	°C	19.7	± 1.5	
<b>5 Prüfdauer</b> (test duration)	hh:mm:ss	01:10:00		
<b>Prüfbeginn</b> (beginning of test)	hh:mm:ss	12:49:20	12.12.2019	2019-12-12
<b>Prüfende</b> (end of test)	hh:mm:ss	13:59:20	12.12.2019	2019-12-12

**6 Bemerkung** (remark)

- Messung wurde mit integrierter UWP durchgeführt / Measurement is carry out with internal installation pump
- Kompressorfrequenz / compressor speed = 95 Hz

**7 Prüfer** (supervisor) R. Rankwiler

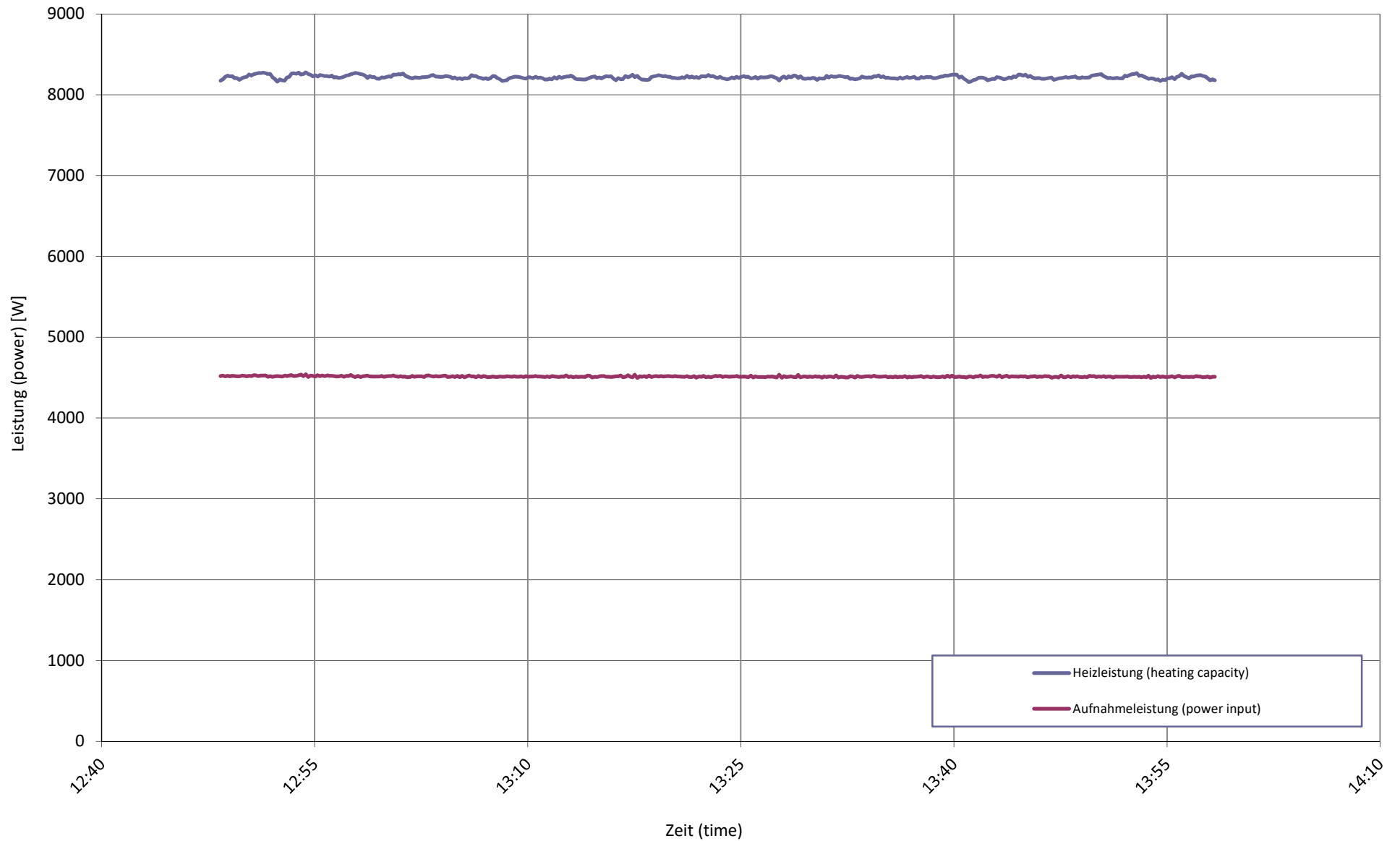
**Prüfnorm** (test standard)

EN 14511-2  
EN 14511-3  
EN 14511-4 clause 4.6  
EN 14825

passed  
passed  
passed  
passed

Wärme- und Aufnahmeleistung bei  
heating capacity and input power at

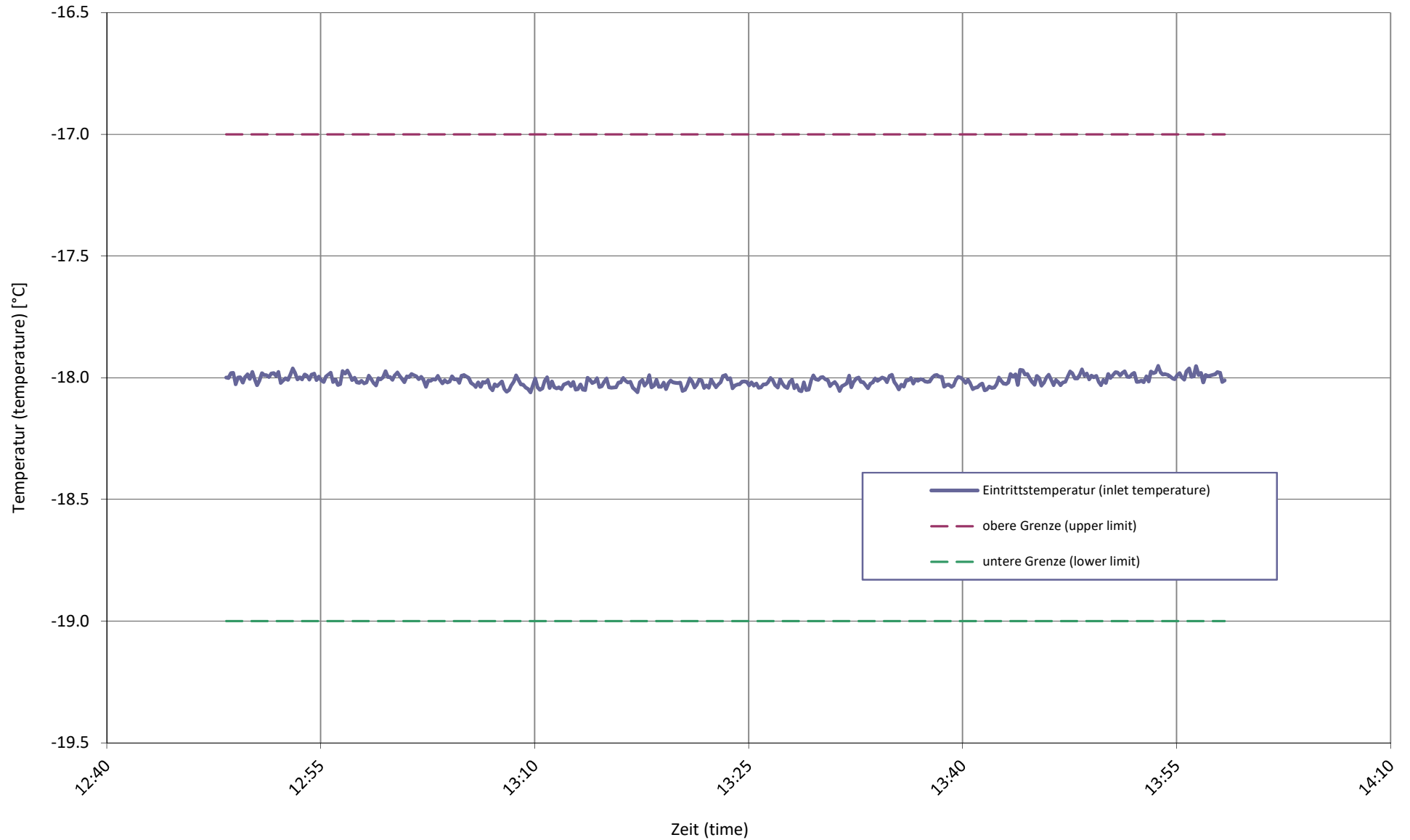
# A-18/Wxx-52.2 TbiV colder





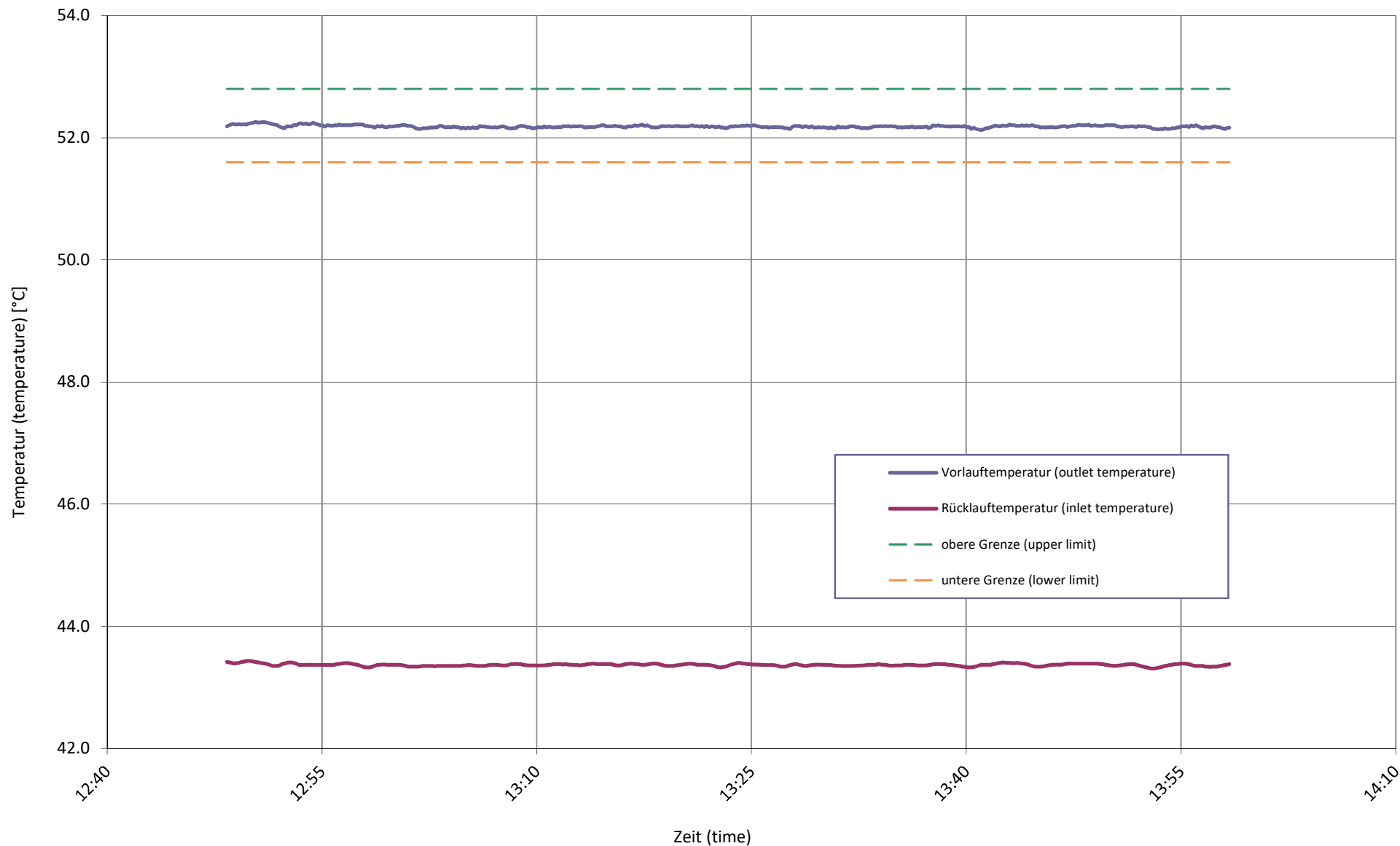
Quellentemperatur bei  
source temperature at

# A-18/Wxx-52.2 Tziv colder



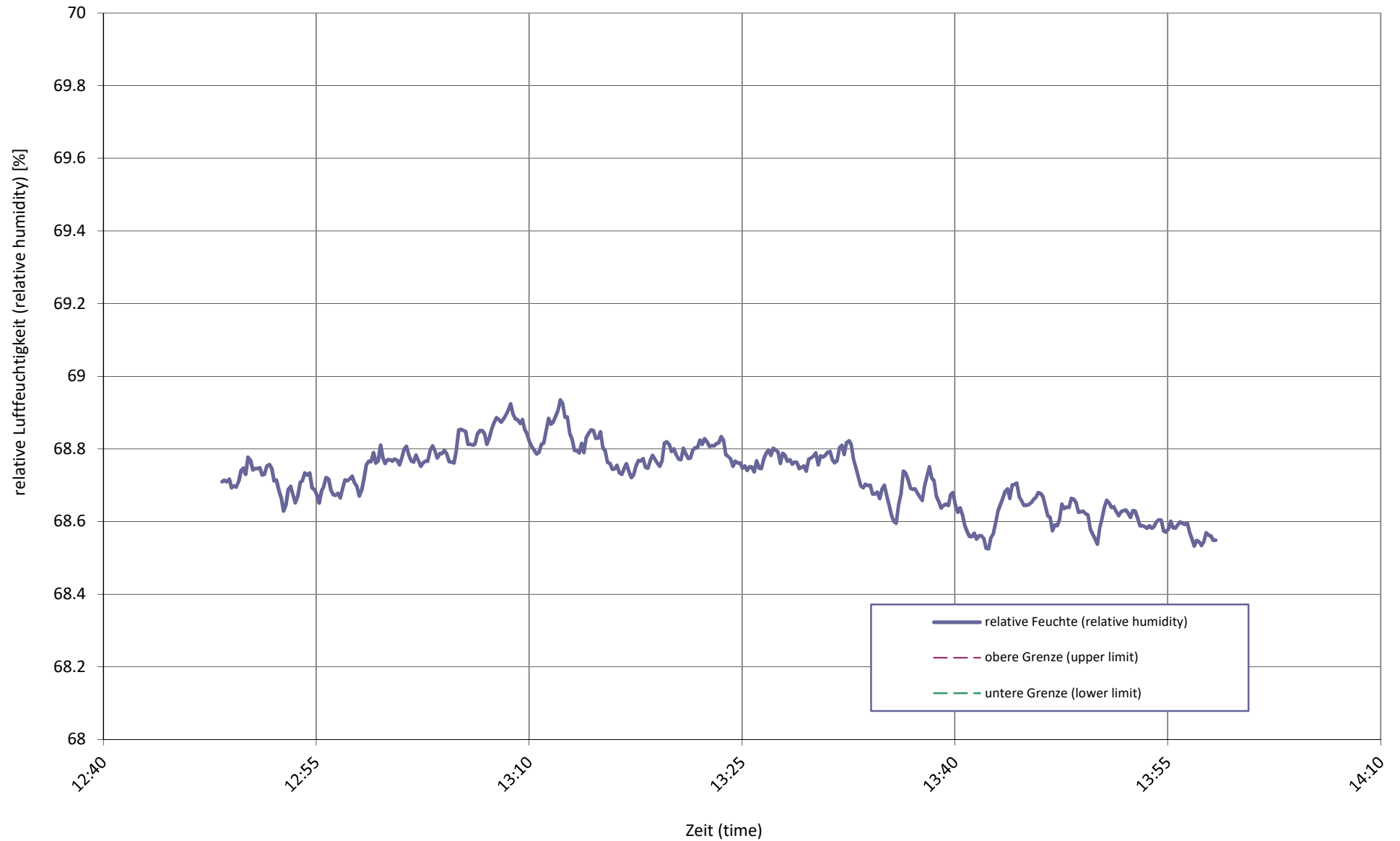
Senktemperatur bei  
sink temperature at

# A-18/Wxx-52.2 Tziv colder



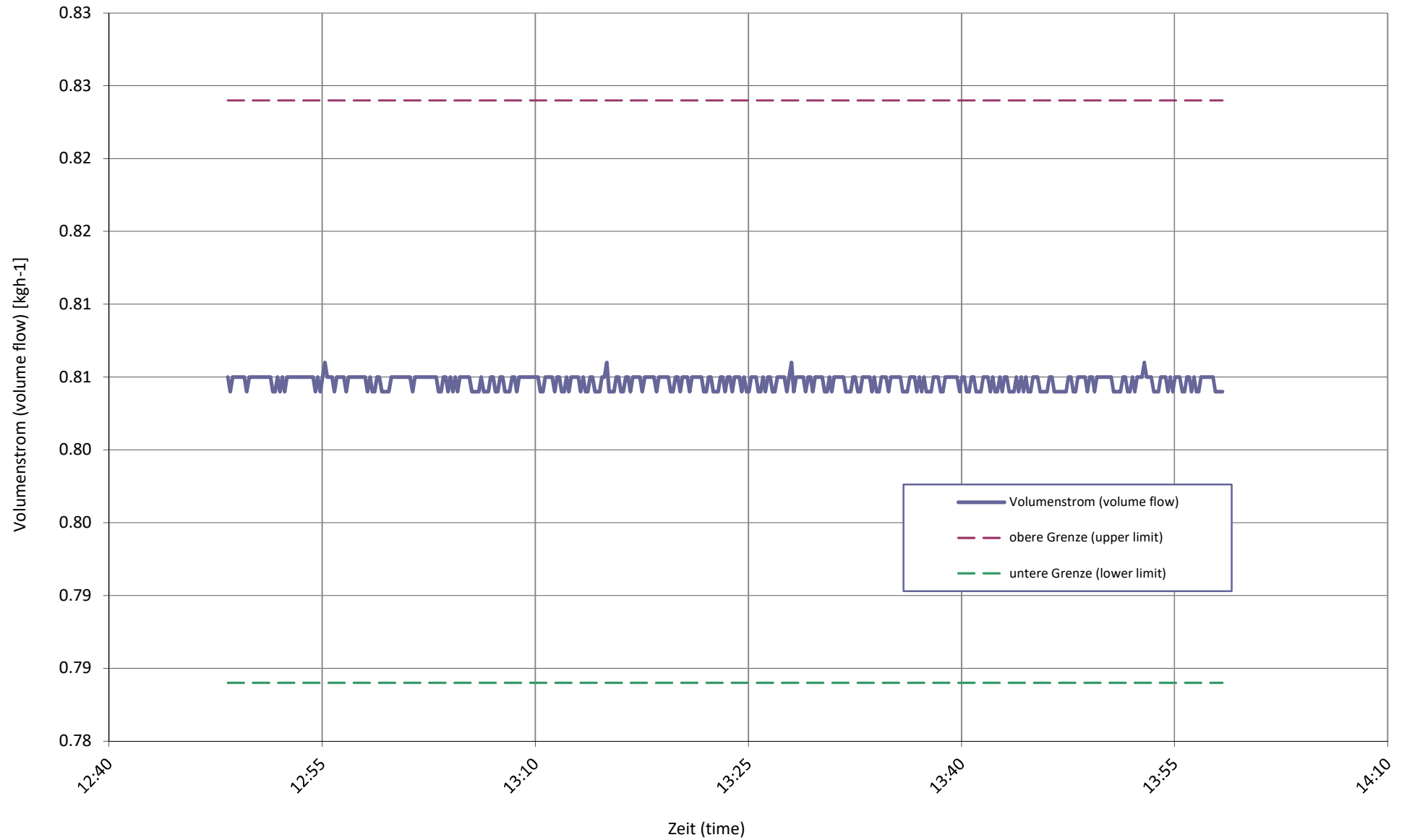
relative Luftfeuchtigkeit bei  
relative humidity at

# A-18/Wxx-52.2 Tziv colder



Senkenmassenstrom bei  
sink mass flow at

# A-18/Wxx-52.2 Tbiv colder



**Prüfbedingung**  
Test condition

**A-22/Wxx-55 colder E**

**Prüfnummer**  
Test number

**LW-458-19-71**

Messgrößen Measured variables	Einheit Unit	Mittelwert Mean value	abs. Fehler absolute error	rel. Fehler relative error
<b>1 Heizleistung</b> (heating capacity) inkl. Umwälzpumpe (included circulation pump)	W	<b>7421</b>	± 91	± 1.23%
<b>a Heizleistung</b> (heating capacity)	W	7442	± 90	
<b>b Lufteintrittstemperatur</b> (air inlet temperature)	°C	-22.01	± 0.04	
<b>Luftaustrittstemperatur</b> (air outlet temperature)	°C	-22.79	± 0.19	
<b>Luftdruck</b> (air pressure)	hPa	972	± 19	
<b>Relative Luftfeuchtigkeit</b> (relative humidity)	%	69.0	± 2.1	
<b>c Rücklauftemperatur</b> (water inlet temperature)	°C	47.00	± 0.05	
<b>Vorlauftemperatur</b> (water outlet temperature)	°C	54.97	± 0.06	
<b>Massenstrom</b> (mass flow)	kg h <sup>-1</sup>	803.5	± 4.0	
<b>Hydraulischer Druckabfall</b> (hydraulic pressure drop)	kPa	-18.50	± -0.46	
<b>d Abtaudauer</b> (period of defrosting)	min	-		
<b>Heizdauer</b> (period of heating)	min	-		
<b>Relative Abtaudauer</b> (relative duration of defrosting period)	%	-		
<b>Abtauleistung</b> (defrosting output)	W	-	± -	± -
<b>e Niederdruck</b> (low pressure)	bara	-	± -	
<b>Sauggastemperatur</b> (suction gas temperature)	°C	-	± -	
<b>Hochdruck</b> (high pressure)	bara	-	± -	
<b>Heissgastemperatur</b> (hot gas temperature)	°C	-	± -	
<b>Flüssigkeitstemperatur</b> (condenser outlet temperature)	°C	-	± -	
<b>2 Wirkleistung total</b> (total power input) inkl. Umwälzpumpe (included circulation pump)	W	<b>4800</b>	± 62	± 1.30%
<b>Wirkleistung</b> (power input)	W	4825	± 61	
<b>Spannung</b> (voltage)	V	233.7	± 0.4	
<b>Stromaufnahme</b> (current consumption)	A	7.42	± 0.26	
<b>Scheinleistung</b> (apparent output)	VA	5202	± 56	
<b>Leistungsfaktor cosp</b> (power factor)	-	0.93	± 0.01	
<b>3 COP</b> (COP)	-	<b>1.546</b>	± 0.028	± 1.79%
<b>4 Umgebungstemperatur</b> (ambient temperature)	°C	19.4	± 1.5	
<b>5 Prüfdauer</b> (test duration)	hh:mm:ss	01:10:00		
<b>Prüfbeginn</b> (beginning of test)	hh:mm:ss	18:54:10	12.12.2019	2019-12-12
<b>Prüfende</b> (end of test)	hh:mm:ss	20:04:10	12.12.2019	2019-12-12

**6 Bemerkung** (remark)

- Messung wurde mit integrierter UWP durchgeführt / Measurement is carry out with internal installation pump
- Kompressorfrequenz / compressor speed = 95 Hz

**7 Prüfer** (supervisor) R. Rankwiler

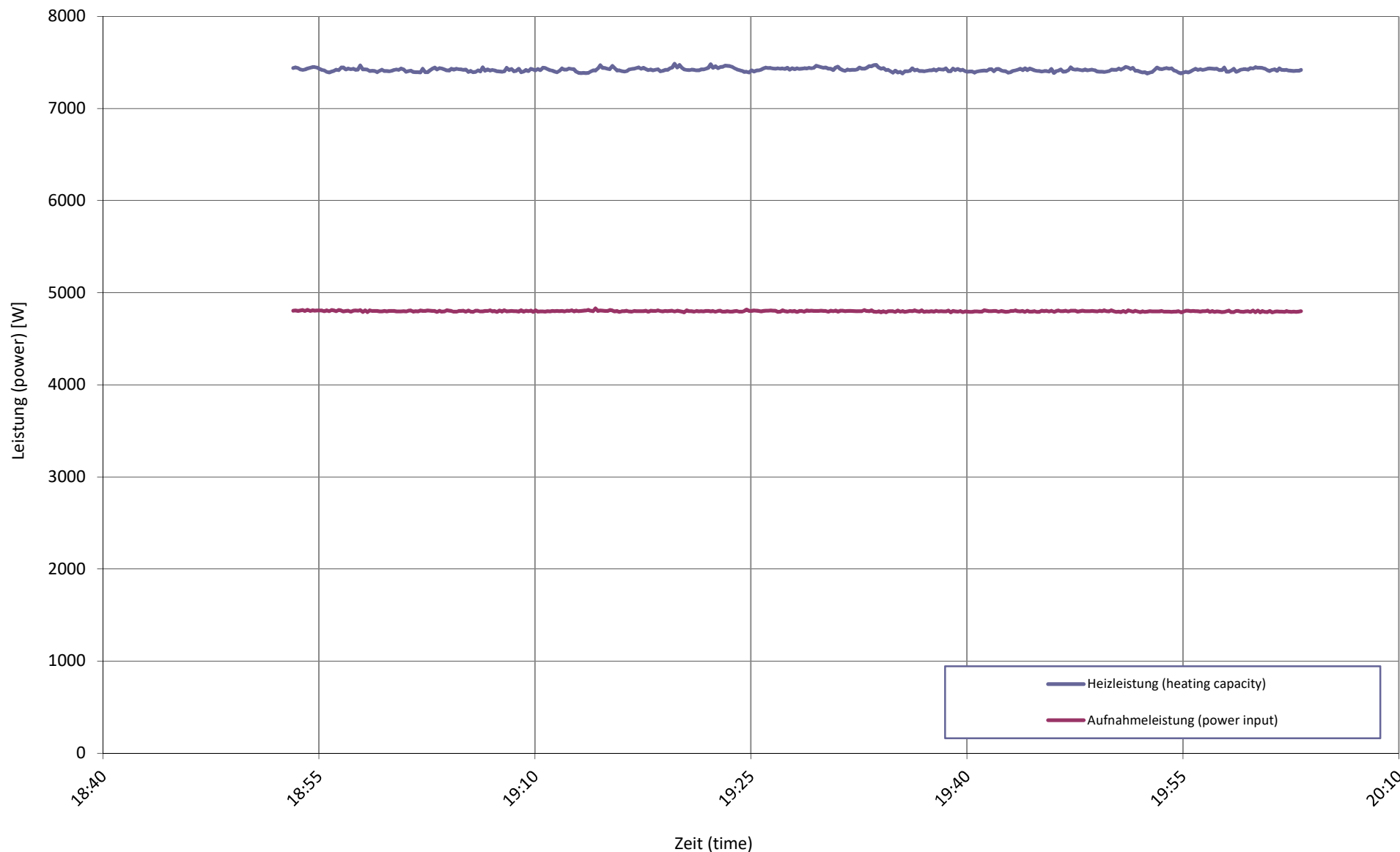
**Prüfnorm** (test standard)

EN 14511-2  
EN 14511-3  
EN 14511-4 clause 4.6  
EN 14825

passed  
passed  
passed  
passed

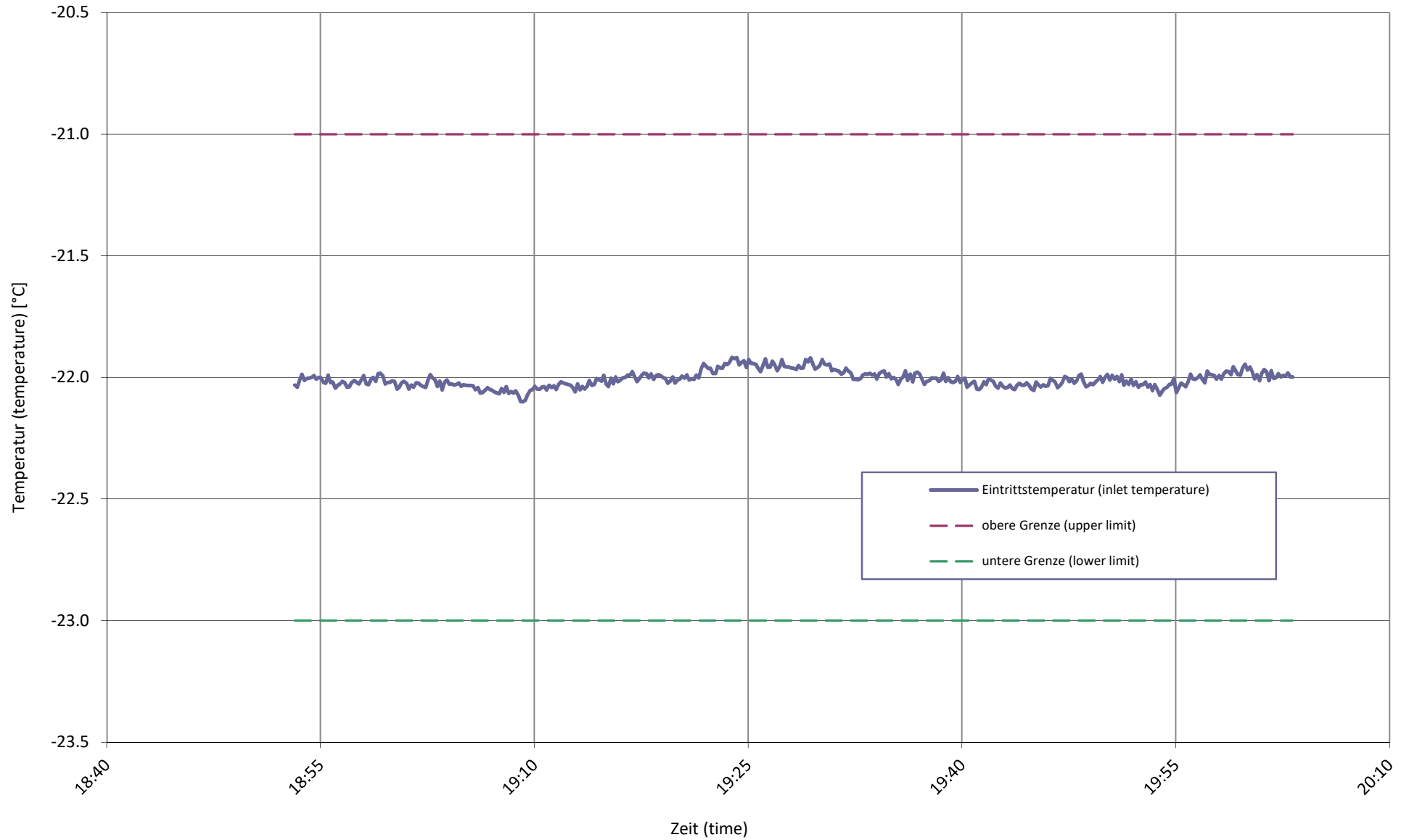
**Wärme- und Aufnahmeleistung bei**  
heating capacity and input power at

# A-22/Wxx-55 colder E



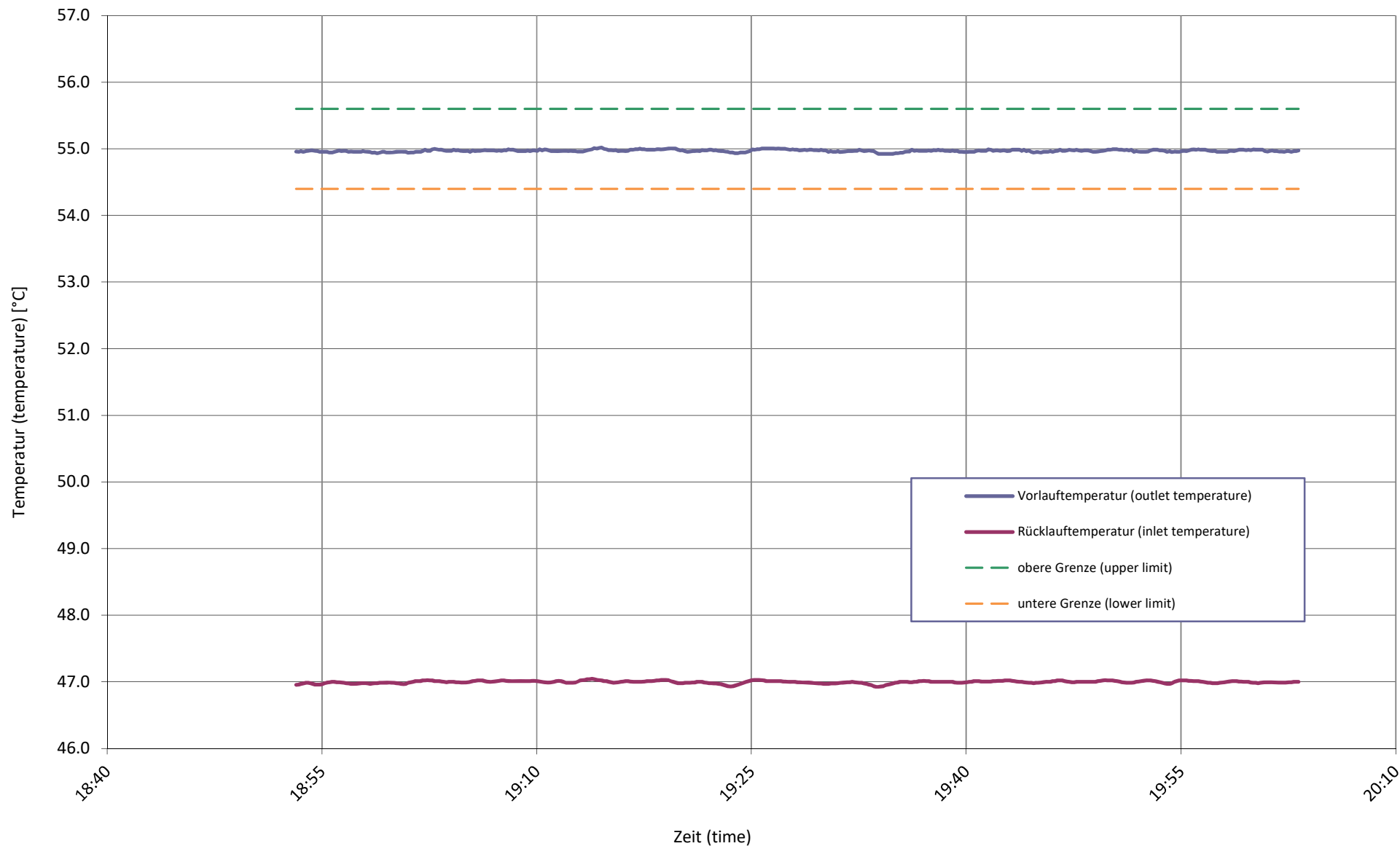
Quellentemperatur bei  
source temperature at

# A-22/Wxx-55 colder E



Senktemperatur bei  
sink temperature at

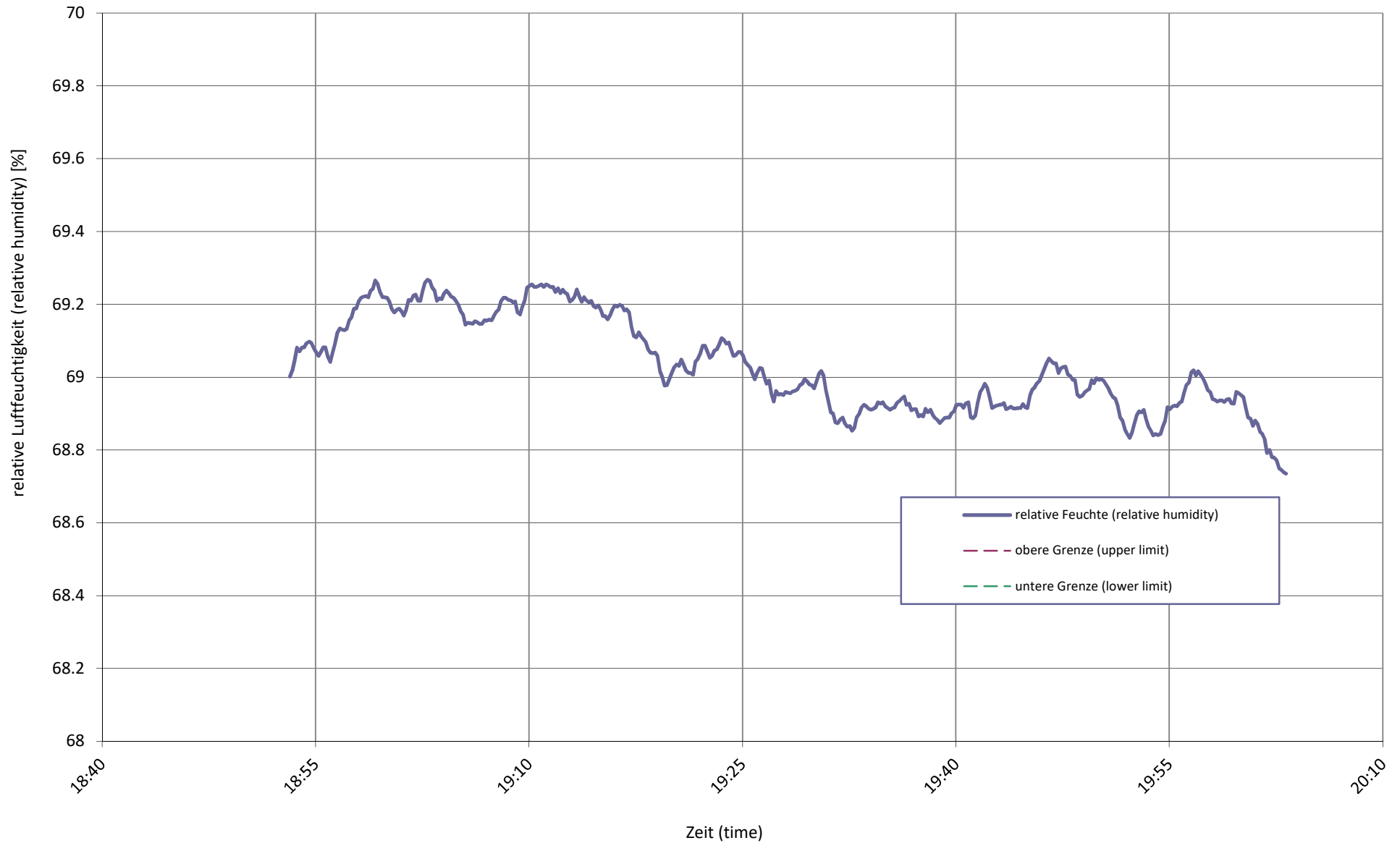
# A-22/Wxx-55 colder E





relative Luftfeuchtigkeit bei  
relative humidity at

# A-22/Wxx-55 colder E



Senkenmassenstrom bei  
sink mass flow at

# A-22/Wxx-55 colder E

