



# PROJECT MILAZZO 2



## H<sub>2</sub>-Plant

Linde Project No: 2921A1C6  
Linde Job Code: Milazzo 2  
Project Doc No: P-CE 1002

ITEM NO.:  
Client Doc. No.: 018-GA-A4-006

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# Client Material Balance

N	1.0	6.2.2008		76	U. Schrader	B. Klein	U. Schrader	
Status	Issue	Date	Description	Pages	Prepared	Checked	Approved	Authorized

*Linde*

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**Stream Data Sheet**

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25 000 Nm<sup>3</sup>/hr Hydrogen

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**Milazzo 2**

Case Description

Case 1: 100% Load, Normal Operating Case



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PU 18 Streamno 1 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	9909.42					
Mass Flow	KG/HR	8140.47					
Mol Flow	KMOL/HR	442.12					
Mol Flow (Vapour)	KMOL/HR	442.12					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	20.000					
Pressure	BAR	21.000					
Enthalpy	KW	-9433.41					
Mol. Weight (Vapour)	KG/KMOL	18.413					
Components (Total):							
N2	WEIGHT-FRAC	0.0522					
CO2	WEIGHT-FRAC	0.0177					
CH4	WEIGHT-FRAC	0.7525					
C2H6	WEIGHT-FRAC	0.1163					
C3H8	WEIGHT-FRAC	0.0388					
I C4H10	WEIGHT-FRAC	0.006314					
C4H10	WEIGHT-FRAC	0.009470					
C5H12	WEIGHT-FRAC	0.004310					
C6H14	WEIGHT-FRAC	0.002340					
HE	WEIGHT-FRAC	0.000152					
Components (Total):							
N2	MOL-%	3.430					
CO2	MOL-%	0.7400					
CH4	MOL-%	86.360					
C2H6	MOL-%	7.120					
C3H8	MOL-%	1.620					
I C4H10	MOL-%	0.2000					
C4H10	MOL-%	0.3000					
C5H12	MOL-%	0.1100					
C6H14	MOL-%	0.0500					
HE	MOL-%	0.0700					



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PU 18 Streamno 2 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	9077.33					
Mass Flow	KG/HR	7456.92					
Mol Flow	KMOL/HR	404.99					
Mol Flow (Vapour)	KMOL/HR	404.99					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	20.000					
Pressure	BAR	21.000					
Enthalpy	KW	-8641.29					
Mol. Weight (Vapour)	KG/KMOL	18.413					
Components (Total):							
N2	WEIGHT-FRAC	0.0522					
CO2	WEIGHT-FRAC	0.0177					
CH4	WEIGHT-FRAC	0.7525					
C2H6	WEIGHT-FRAC	0.1163					
C3H8	WEIGHT-FRAC	0.0388					
I C4H10	WEIGHT-FRAC	0.006314					
C4H10	WEIGHT-FRAC	0.009470					
C5H12	WEIGHT-FRAC	0.004310					
C6H14	WEIGHT-FRAC	0.002340					
HE	WEIGHT-FRAC	0.000152					
Components (Total):							
N2	MOL-%	3.430					
CO2	MOL-%	0.7400					
CH4	MOL-%	86.360					
C2H6	MOL-%	7.120					
C3H8	MOL-%	1.620					
I C4H10	MOL-%	0.2000					
C4H10	MOL-%	0.3000					
C5H12	MOL-%	0.1100					
C6H14	MOL-%	0.0500					
HE	MOL-%	0.0700					



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PU 18 Streamno 3 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	9077.33					
Mass Flow	KG/HR	7456.92					
Mol Flow	KMOL/HR	404.99					
Mol Flow (Vapour)	KMOL/HR	404.99					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	19.650					
Pressure	BAR	20.300					
Enthalpy	KW	-8641.29					
Mol. Weight (Vapour)	KG/KMOL	18.413					
Components (Total):							
N2	WEIGHT-FRAC	0.0522					
CO2	WEIGHT-FRAC	0.0177					
CH4	WEIGHT-FRAC	0.7525					
C2H6	WEIGHT-FRAC	0.1163					
C3H8	WEIGHT-FRAC	0.0388					
I C4H10	WEIGHT-FRAC	0.006314					
C4H10	WEIGHT-FRAC	0.009470					
C5H12	WEIGHT-FRAC	0.004310					
C6H14	WEIGHT-FRAC	0.002340					
HE	WEIGHT-FRAC	0.000152					
Components (Total):							
N2	MOL-%	3.430					
CO2	MOL-%	0.7400					
CH4	MOL-%	86.360					
C2H6	MOL-%	7.120					
C3H8	MOL-%	1.620					
I C4H10	MOL-%	0.2000					
C4H10	MOL-%	0.3000					
C5H12	MOL-%	0.1100					
C6H14	MOL-%	0.0500					
HE	MOL-%	0.0700					



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PU 18 Streamno 4 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	9357.42					
Mass Flow	KG/HR	7482.41					
Mol Flow	KMOL/HR	417.49					
Mol Flow (Vapour)	KMOL/HR	417.49					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	19.817					
Pressure	BAR	20.300					
Enthalpy	KW	-8640.00					
Mol. Weight (Vapour)	KG/KMOL	17.922					
Components (Total):							
H2	WEIGHT-FRAC	0.003362					
N2	WEIGHT-FRAC	0.0520					
CO	WEIGHT-FRAC	4.6765E-07					
CO2	WEIGHT-FRAC	0.0176					
CH4	WEIGHT-FRAC	0.7499					
C2H6	WEIGHT-FRAC	0.1159					
C3H8	WEIGHT-FRAC	0.0387					
I C4H10	WEIGHT-FRAC	0.006292					
C4H10	WEIGHT-FRAC	0.009438					
C5H12	WEIGHT-FRAC	0.004296					
C6H14	WEIGHT-FRAC	0.002332					
HE	WEIGHT-FRAC	0.000153					
Components (Total):							
H2	MOL-%	2.989					
N2	MOL-%	3.329					
CO	MOL-%	0.00002992					
CO2	MOL-%	0.7179					
CH4	MOL-%	83.776					
C2H6	MOL-%	6.907					
C3H8	MOL-%	1.572					
I C4H10	MOL-%	0.1940					
C4H10	MOL-%	0.2910					
C5H12	MOL-%	0.1067					
C6H14	MOL-%	0.0485					
HE	MOL-%	0.0687					



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PU 18 Streamno 5 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	9357.42					
Mass Flow	KG/HR	7482.41					
Mol Flow	KMOL/HR	417.49					
Mol Flow (Vapour)	KMOL/HR	417.49					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	380.00					
Pressure	BAR	20.100					
Enthalpy	KW	-6618.85					
Mol. Weight (Vapour)	KG/KMOL	17.922					
Components (Total):							
H2	WEIGHT-FRAC	0.003362					
N2	WEIGHT-FRAC	0.0520					
CO	WEIGHT-FRAC	4.6765E-07					
CO2	WEIGHT-FRAC	0.0176					
CH4	WEIGHT-FRAC	0.7499					
C2H6	WEIGHT-FRAC	0.1159					
C3H8	WEIGHT-FRAC	0.0387					
I C4H10	WEIGHT-FRAC	0.006292					
C4H10	WEIGHT-FRAC	0.009438					
C5H12	WEIGHT-FRAC	0.004296					
C6H14	WEIGHT-FRAC	0.002332					
HE	WEIGHT-FRAC	0.000153					
Components (Total):							
H2	MOL-%	2.989					
N2	MOL-%	3.329					
CO	MOL-%	0.00002992					
CO2	MOL-%	0.7179					
CH4	MOL-%	83.776					
C2H6	MOL-%	6.907					
C3H8	MOL-%	1.572					
I C4H10	MOL-%	0.1940					
C4H10	MOL-%	0.2910					
C5H12	MOL-%	0.1067					
C6H14	MOL-%	0.0485					
HE	MOL-%	0.0687					



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PU 18 Streamno 6 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	9357.41					
Mass Flow	KG/HR	7482.41					
Mol Flow	KMOL/HR	417.49					
Mol Flow (Vapour)	KMOL/HR	417.49					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	379.99					
Pressure	BAR	19.900					
Enthalpy	KW	-6618.84					
Mol. Weight (Vapour)	KG/KMOL	17.922					
Components (Total):							
H2	WEIGHT-FRAC	0.003362					
N2	WEIGHT-FRAC	0.0520					
CO2	WEIGHT-FRAC	0.0176					
H2O	WEIGHT-FRAC	3.0078E-07					
CH4	WEIGHT-FRAC	0.7499					
C2H6	WEIGHT-FRAC	0.1159					
C3H8	WEIGHT-FRAC	0.0387					
I C4H10	WEIGHT-FRAC	0.006292					
C4H10	WEIGHT-FRAC	0.009438					
C5H12	WEIGHT-FRAC	0.004296					
C6H14	WEIGHT-FRAC	0.002332					
HE	WEIGHT-FRAC	0.000153					
Components (Total):							
H2	MOL-%	2.989					
N2	MOL-%	3.329					
CO2	MOL-%	0.7179					
H2O	MOL-%	0.00002992					
CH4	MOL-%	83.776					
C2H6	MOL-%	6.907					
C3H8	MOL-%	1.572					
I C4H10	MOL-%	0.1940					
C4H10	MOL-%	0.2910					
C5H12	MOL-%	0.1067					
C6H14	MOL-%	0.0485					
HE	MOL-%	0.0687					





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PU 18 Streamno 7 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	9357.41					
Mass Flow	KG/HR	7482.41					
Mol Flow	KMOL/HR	417.49					
Mol Flow (Vapour)	KMOL/HR	417.49					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	376.99					
Pressure	BAR	19.700					
Enthalpy	KW	-6639.14					
Mol. Weight (Vapour)	KG/KMOL	17.922					
Components (Total):							
H2	WEIGHT-FRAC	0.003362					
N2	WEIGHT-FRAC	0.0520					
CO2	WEIGHT-FRAC	0.0176					
H2O	WEIGHT-FRAC	3.0078E-07					
CH4	WEIGHT-FRAC	0.7499					
C2H6	WEIGHT-FRAC	0.1159					
C3H8	WEIGHT-FRAC	0.0387					
I C4H10	WEIGHT-FRAC	0.006292					
C4H10	WEIGHT-FRAC	0.009438					
C5H12	WEIGHT-FRAC	0.004296					
C6H14	WEIGHT-FRAC	0.002332					
HE	WEIGHT-FRAC	0.000153					
Components (Total):							
H2	MOL-%	2.989					
N2	MOL-%	3.329					
CO2	MOL-%	0.7179					
H2O	MOL-%	0.00002992					
CH4	MOL-%	83.776					
C2H6	MOL-%	6.907					
C3H8	MOL-%	1.572					
I C4H10	MOL-%	0.1940					
C4H10	MOL-%	0.2910					
C5H12	MOL-%	0.1067					
C6H14	MOL-%	0.0485					
HE	MOL-%	0.0687					



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PU 18 Streamno 8 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	9357.41					
Mass Flow	KG/HR	7482.41					
Mol Flow	KMOL/HR	417.49					
Mol Flow (Vapour)	KMOL/HR	417.49					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	376.98					
Pressure	BAR	19.600					
Enthalpy	KW	-6639.14					
Mol. Weight (Vapour)	KG/KMOL	17.922					
Components (Total):							
H2	WEIGHT-FRAC	0.003362					
N2	WEIGHT-FRAC	0.0520					
CO2	WEIGHT-FRAC	0.0176					
H2O	WEIGHT-FRAC	3.0078E-07					
CH4	WEIGHT-FRAC	0.7499					
C2H6	WEIGHT-FRAC	0.1159					
C3H8	WEIGHT-FRAC	0.0387					
I C4H10	WEIGHT-FRAC	0.006292					
C4H10	WEIGHT-FRAC	0.009438					
C5H12	WEIGHT-FRAC	0.004296					
C6H14	WEIGHT-FRAC	0.002332					
HE	WEIGHT-FRAC	0.000153					
Components (Total):							
H2	MOL-%	2.989					
N2	MOL-%	3.329					
CO2	MOL-%	0.7179					
H2O	MOL-%	0.00002992					
CH4	MOL-%	83.776					
C2H6	MOL-%	6.907					
C3H8	MOL-%	1.572					
I C4H10	MOL-%	0.1940					
C4H10	MOL-%	0.2910					
C5H12	MOL-%	0.1067					
C6H14	MOL-%	0.0485					
HE	MOL-%	0.0687					



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PU 18 Streamno 9 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	41802					
Mass Flow	KG/HR	33560					
Mol Flow	KMOL/HR	1865.04					
Mol Flow (Vapour)	KMOL/HR	1865.04					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	394.78					
Pressure	BAR	32.250					
Enthalpy	KW	-98911					
Mol. Weight (Vapour)	KG/KMOL	17.995					
Components (Total):							
H2	WEIGHT-FRAC	0.000750					
N2	WEIGHT-FRAC	0.0116					
CO2	WEIGHT-FRAC	0.003930					
H2O	WEIGHT-FRAC	0.7770					
CH4	WEIGHT-FRAC	0.1672					
C2H6	WEIGHT-FRAC	0.0258					
C3H8	WEIGHT-FRAC	0.008621					
I C4H10	WEIGHT-FRAC	0.001403					
C4H10	WEIGHT-FRAC	0.002104					
C5H12	WEIGHT-FRAC	0.000958					
C6H14	WEIGHT-FRAC	0.000520					
HE	WEIGHT-FRAC	0.00003418					
Components (Total):							
H2	MOL-%	0.6691					
N2	MOL-%	0.7453					
CO2	MOL-%	0.1607					
H2O	MOL-%	77.615					
CH4	MOL-%	18.753					
C2H6	MOL-%	1.546					
C3H8	MOL-%	0.3518					
I C4H10	MOL-%	0.0434					
C4H10	MOL-%	0.0651					
C5H12	MOL-%	0.0239					
C6H14	MOL-%	0.0109					
HE	MOL-%	0.0154					



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Property	Dimension	Case-> 1 100% load, NOC						
Standard Flow	NM3/HR	41802						
Mass Flow	KG/HR	33560						
Mol Flow	KMOL/HR	1865.04						
Mol Flow (Vapour)	KMOL/HR	1865.04						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	585.00						
Pressure	BAR	31.450						
Enthalpy	KW	-94405						
Mol. Weight (Vapour)	KG/KMOL	17.995						
Components (Total):								
H2	WEIGHT-FRAC	0.000750						
N2	WEIGHT-FRAC	0.0116						
CO2	WEIGHT-FRAC	0.003930						
H2O	WEIGHT-FRAC	0.7770						
CH4	WEIGHT-FRAC	0.1672						
C2H6	WEIGHT-FRAC	0.0258						
C3H8	WEIGHT-FRAC	0.008621						
I C4H10	WEIGHT-FRAC	0.001403						
C4H10	WEIGHT-FRAC	0.002104						
C5H12	WEIGHT-FRAC	0.000958						
C6H14	WEIGHT-FRAC	0.000520						
HE	WEIGHT-FRAC	0.00003418						
Components (Total):								
H2	MOL-%	0.6691						
N2	MOL-%	0.7453						
CO2	MOL-%	0.1607						
H2O	MOL-%	77.615						
CH4	MOL-%	18.753						
C2H6	MOL-%	1.546						
C3H8	MOL-%	0.3518						
I C4H10	MOL-%	0.0434						
C4H10	MOL-%	0.0651						
C5H12	MOL-%	0.0239						
C6H14	MOL-%	0.0109						
HE	MOL-%	0.0154						



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PU 18 Streamno 11 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	57140					
Mass Flow	KG/HR	33560					
Mol Flow	KMOL/HR	2549.32					
Mol Flow (Vapour)	KMOL/HR	2549.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	840.00					
Pressure	BAR	29.350					
Enthalpy	KW	-68643					
Mol. Weight (Vapour)	KG/KMOL	13.164					
Components (Total):							
H2	WEIGHT-FRAC	0.0681					
N2	WEIGHT-FRAC	0.0116					
CO	WEIGHT-FRAC	0.1641					
CO2	WEIGHT-FRAC	0.1948					
H2O	WEIGHT-FRAC	0.5153					
CH4	WEIGHT-FRAC	0.0461					
HE	WEIGHT-FRAC	0.00003418					
Components (Total):							
H2	MOL-%	44.467					
N2	MOL-%	0.5452					
CO	MOL-%	7.712					
CO2	MOL-%	5.826					
H2O	MOL-%	37.652					
CH4	MOL-%	3.786					
HE	MOL-%	0.0112					



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PU 18 Streamno 12 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	57140					
Mass Flow	KG/HR	33560					
Mol Flow	KMOL/HR	2549.32					
Mol Flow (Vapour)	KMOL/HR	2549.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	330.00					
Pressure	BAR	29.050					
Enthalpy	KW	-81889					
Mol. Weight (Vapour)	KG/KMOL	13.164					
Components (Total):							
H2	WEIGHT-FRAC	0.0681					
N2	WEIGHT-FRAC	0.0116					
CO	WEIGHT-FRAC	0.1641					
CO2	WEIGHT-FRAC	0.1948					
H2O	WEIGHT-FRAC	0.5153					
CH4	WEIGHT-FRAC	0.0461					
HE	WEIGHT-FRAC	0.00003418					
Components (Total):							
H2	MOL-%	44.467					
N2	MOL-%	0.5452					
CO	MOL-%	7.712					
CO2	MOL-%	5.826					
H2O	MOL-%	37.652					
CH4	MOL-%	3.786					
HE	MOL-%	0.0112					



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PU 18 Streamno 13 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	57140					
Mass Flow	KG/HR	33560					
Mol Flow	KMOL/HR	2549.32					
Mol Flow (Vapour)	KMOL/HR	2549.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	330.00					
Pressure	BAR	29.050					
Enthalpy	KW	-81889					
Mol. Weight (Vapour)	KG/KMOL	13.164					
Components (Total):							
H2	WEIGHT-FRAC	0.0681					
N2	WEIGHT-FRAC	0.0116					
CO	WEIGHT-FRAC	0.1641					
CO2	WEIGHT-FRAC	0.1948					
H2O	WEIGHT-FRAC	0.5153					
CH4	WEIGHT-FRAC	0.0461					
HE	WEIGHT-FRAC	0.00003418					
Components (Total):							
H2	MOL-%	44.467					
N2	MOL-%	0.5452					
CO	MOL-%	7.712					
CO2	MOL-%	5.826					
H2O	MOL-%	37.652					
CH4	MOL-%	3.786					
HE	MOL-%	0.0112					



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PU 18 Streamno 14 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	57140					
Mass Flow	KG/HR	33561					
Mol Flow	KMOL/HR	2549.32					
Mol Flow (Vapour)	KMOL/HR	2549.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	391.47					
Pressure	BAR	28.900					
Enthalpy	KW	-81889					
Mol. Weight (Vapour)	KG/KMOL	13.164					
Components (Total):							
H2	WEIGHT-FRAC	0.0770					
N2	WEIGHT-FRAC	0.0116					
CO	WEIGHT-FRAC	0.0403					
CO2	WEIGHT-FRAC	0.3893					
H2O	WEIGHT-FRAC	0.4356					
CH4	WEIGHT-FRAC	0.0461					
HE	WEIGHT-FRAC	0.00003418					
Components (Total):							
H2	MOL-%	50.286					
N2	MOL-%	0.5452					
CO	MOL-%	1.893					
CO2	MOL-%	11.645					
H2O	MOL-%	31.833					
CH4	MOL-%	3.786					
HE	MOL-%	0.0112					





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PU 18 Streamno 15 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	57140					
Mass Flow	KG/HR	33561					
Mol Flow	KMOL/HR	2549.32					
Mol Flow (Vapour)	KMOL/HR	2549.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	312.36					
Pressure	BAR	28.600					
Enthalpy	KW	-83910					
Mol. Weight (Vapour)	KG/KMOL	13.164					
Components (Total):							
H2	WEIGHT-FRAC	0.0770					
N2	WEIGHT-FRAC	0.0116					
CO	WEIGHT-FRAC	0.0403					
CO2	WEIGHT-FRAC	0.3893					
H2O	WEIGHT-FRAC	0.4356					
CH4	WEIGHT-FRAC	0.0461					
HE	WEIGHT-FRAC	0.00003418					
Components (Total):							
H2	MOL-%	50.286					
N2	MOL-%	0.5452					
CO	MOL-%	1.893					
CO2	MOL-%	11.645					
H2O	MOL-%	31.833					
CH4	MOL-%	3.786					
HE	MOL-%	0.0112					



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PU 18 Streamno 16 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	57140					
Mass Flow	KG/HR	33561					
Mol Flow	KMOL/HR	2549.32					
Mol Flow (Vapour)	KMOL/HR	2355.06					
Mol Flow (Liquid)	KMOL/HR	194.26					
Vapour Fraction	WEIGHT-FRAC	0.8957					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0.1043					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	164.87					
Pressure	BAR	28.200					
Enthalpy	KW	-89415					
Mol. Weight (Vapour)	KG/KMOL	12.764					
Mol. Weight (Liquid)	KG/KMOL	18.023					
Components (Total):							
H2	WEIGHT-FRAC	0.0770					
N2	WEIGHT-FRAC	0.0116					
CO	WEIGHT-FRAC	0.0403					
CO2	WEIGHT-FRAC	0.3893					
H2O	WEIGHT-FRAC	0.4356					
CH4	WEIGHT-FRAC	0.0461					
HE	WEIGHT-FRAC	0.00003418					
Components (Total):							
H2	MOL-%	50.286					
N2	MOL-%	0.5452					
CO	MOL-%	1.893					
CO2	MOL-%	11.645					
H2O	MOL-%	31.833					
CH4	MOL-%	3.786					
HE	MOL-%	0.0112					



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PU 18 Streamno 17 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	57140					
Mass Flow	KG/HR	33561					
Mol Flow	KMOL/HR	2549.32					
Mol Flow (Vapour)	KMOL/HR	2182.08					
Mol Flow (Liquid)	KMOL/HR	367.24					
Vapour Fraction	WEIGHT-FRAC	0.8028					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0.1972					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	154.59					
Pressure	BAR	27.900					
Enthalpy	KW	-91507					
Mol. Weight (Vapour)	KG/KMOL	12.347					
Mol. Weight (Liquid)	KG/KMOL	18.025					
Components (Total):							
H2	WEIGHT-FRAC	0.0770					
N2	WEIGHT-FRAC	0.0116					
CO	WEIGHT-FRAC	0.0403					
CO2	WEIGHT-FRAC	0.3893					
H2O	WEIGHT-FRAC	0.4356					
CH4	WEIGHT-FRAC	0.0461					
HE	WEIGHT-FRAC	0.00003418					
Components (Total):							
H2	MOL-%	50.286					
N2	MOL-%	0.5452					
CO	MOL-%	1.893					
CO2	MOL-%	11.645					
H2O	MOL-%	31.833					
CH4	MOL-%	3.786					
HE	MOL-%	0.0112					



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PU 18 Streamno 18 Base Case 1

Property	Dimension	Case-> 1 100% load, NOC					
Standard Flow	NM3/HR	48907					
Mass Flow	KG/HR	26940					
Mol Flow	KMOL/HR	2182.03					
Mol Flow (Vapour)	KMOL/HR	2182.03					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	154.58					
Pressure	BAR	27.900					
Enthalpy	KW	-63340					
Mol. Weight (Vapour)	KG/KMOL	12.346					
Components (Total):							
H2	WEIGHT-FRAC	0.0959					
N2	WEIGHT-FRAC	0.0145					
CO	WEIGHT-FRAC	0.0502					
CO2	WEIGHT-FRAC	0.4846					
H2O	WEIGHT-FRAC	0.2973					
CH4	WEIGHT-FRAC	0.0575					
HE	WEIGHT-FRAC	0.00004258					
Components (Total):							
H2	MOL-%	58.744					
N2	MOL-%	0.6370					
CO	MOL-%	2.212					
CO2	MOL-%	13.596					
H2O	MOL-%	20.375					
CH4	MOL-%	4.423					
HE	MOL-%	0.0131					



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PU 18 Streamno 19 Base Case 1

Property	Dimension	Case-> 1 100% load, NOC					
Standard Flow	NM3/HR	48907					
Mass Flow	KG/HR	26940					
Mol Flow	KMOL/HR	2182.03					
Mol Flow (Vapour)	KMOL/HR	1744.17					
Mol Flow (Liquid)	KMOL/HR	437.86					
Vapour Fraction	WEIGHT-FRAC	0.7066					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0.2934					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	48.000					
Pressure	BAR	27.600					
Enthalpy	KW	-70641					
Mol. Weight (Vapour)	KG/KMOL	10.913					
Mol. Weight (Liquid)	KG/KMOL	18.054					
Components (Total):							
H2	WEIGHT-FRAC	0.0959					
N2	WEIGHT-FRAC	0.0145					
CO	WEIGHT-FRAC	0.0502					
CO2	WEIGHT-FRAC	0.4846					
H2O	WEIGHT-FRAC	0.2973					
CH4	WEIGHT-FRAC	0.0575					
HE	WEIGHT-FRAC	0.00004258					
Components (Total):							
H2	MOL-%	58.744					
N2	MOL-%	0.6370					
CO	MOL-%	2.212					
CO2	MOL-%	13.596					
H2O	MOL-%	20.375					
CH4	MOL-%	4.423					
HE	MOL-%	0.0131					



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PU 18 Streamno 20 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	48907					
Mass Flow	KG/HR	26940					
Mol Flow	KMOL/HR	2182.03					
Mol Flow (Vapour)	KMOL/HR	1739.79					
Mol Flow (Liquid)	KMOL/HR	442.23					
Vapour Fraction	WEIGHT-FRAC	0.7034					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0.2966					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	33.000					
Pressure	BAR	27.300					
Enthalpy	KW	-71060					
Mol. Weight (Vapour)	KG/KMOL	10.892					
Mol. Weight (Liquid)	KG/KMOL	18.068					
Components (Total):							
H2	WEIGHT-FRAC	0.0959					
N2	WEIGHT-FRAC	0.0145					
CO	WEIGHT-FRAC	0.0502					
CO2	WEIGHT-FRAC	0.4846					
H2O	WEIGHT-FRAC	0.2973					
CH4	WEIGHT-FRAC	0.0575					
HE	WEIGHT-FRAC	0.00004258					
Components (Total):							
H2	MOL-%	58.744					
N2	MOL-%	0.6370					
CO	MOL-%	2.212					
CO2	MOL-%	13.596					
H2O	MOL-%	20.375					
CH4	MOL-%	4.423					
HE	MOL-%	0.0131					



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PU 18 Streamno 21 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	38995						
Mass Flow	KG/HR	18950						
Mol Flow	KMOL/HR	1739.79						
Mol Flow (Vapour)	KMOL/HR	1739.79						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	33.000						
Pressure	BAR	27.300						
Enthalpy	KW	-35982						
Mol. Weight (Vapour)	KG/KMOL	10.892						
Components (Total):								
H2	WEIGHT-FRAC	0.1364						
N2	WEIGHT-FRAC	0.0205						
CO	WEIGHT-FRAC	0.0713						
CO2	WEIGHT-FRAC	0.6867						
H2O	WEIGHT-FRAC	0.003318						
CH4	WEIGHT-FRAC	0.0817						
HE	WEIGHT-FRAC	0.00006054						
Components (Total):								
H2	MOL-%	73.669						
N2	MOL-%	0.7988						
CO	MOL-%	2.774						
CO2	MOL-%	16.995						
H2O	MOL-%	0.2006						
CH4	MOL-%	5.546						
HE	MOL-%	0.0165						



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PU 18 Streamno 22 Base Case 1

Property	Case->							
	Dimension	1 100% load, NOC						
Standard Flow	NM3/HR	38995						
Mass Flow	KG/HR	18950						
Mol Flow	KMOL/HR	1739.79						
Mol Flow (Vapour)	KMOL/HR	1739.79						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	32.984						
Pressure	BAR	27.100						
Enthalpy	KW	-35982						
Mol. Weight (Vapour)	KG/KMOL	10.892						
Components (Total):								
H2	WEIGHT-FRAC	0.1364						
N2	WEIGHT-FRAC	0.0205						
CO	WEIGHT-FRAC	0.0713						
CO2	WEIGHT-FRAC	0.6867						
H2O	WEIGHT-FRAC	0.003318						
CH4	WEIGHT-FRAC	0.0817						
HE	WEIGHT-FRAC	0.00006054						
Components (Total):								
H2	MOL-%	73.669						
N2	MOL-%	0.7988						
CO	MOL-%	2.774						
CO2	MOL-%	16.995						
H2O	MOL-%	0.2006						
CH4	MOL-%	5.546						
HE	MOL-%	0.0165						





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PU 18 Streamno 23 Base Case 1

Property	Case-> 1		100% load, NOC						
	Dimension								
Standard Flow	NM3/HR		25305						
Mass Flow	KG/HR		2297.53						
Mol Flow	KMOL/HR		1129.02						
Mol Flow (Vapour)	KMOL/HR		1129.02						
Vapour Fraction	WEIGHT-FRAC		1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC		0						
Liquid Fraction	WEIGHT-FRAC		0						
Solid Fraction	WEIGHT-FRAC		0						
Temperature	CEL		37.984						
Pressure	BAR		26.800						
Enthalpy	KW		123.69						
Mol. Weight (Vapour)	KG/KMOL		2.035						
Components (Total):									
H2	WEIGHT-FRAC		0.9897						
N2	WEIGHT-FRAC		0.009086						
CO	WEIGHT-FRAC		0.000138						
CH4	WEIGHT-FRAC		0.000631						
HE	WEIGHT-FRAC		0.000492						
Components (Total):									
H2	MOL-%		99.900						
N2	MOL-%		0.0660						
CO	MOL-%		0.001000						
CH4	MOL-%		0.008000						
HE	MOL-%		0.0250						



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PU 18 Streamno 24 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	25025					
Mass Flow	KG/HR	2272.10					
Mol Flow	KMOL/HR	1116.53					
Mol Flow (Vapour)	KMOL/HR	1116.53					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	37.984					
Pressure	BAR	26.800					
Enthalpy	KW	122.32					
Mol. Weight (Vapour)	KG/KMOL	2.035					
Components (Total):							
H2	WEIGHT-FRAC	0.9897					
N2	WEIGHT-FRAC	0.009086					
CO	WEIGHT-FRAC	0.000138					
CH4	WEIGHT-FRAC	0.000631					
HE	WEIGHT-FRAC	0.000492					
Components (Total):							
H2	MOL-%	99.900					
N2	MOL-%	0.0660					
CO	MOL-%	0.001000					
CH4	MOL-%	0.008000					
HE	MOL-%	0.0250					



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PU 18 Streamno 25 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	25025					
Mass Flow	KG/HR	2272.10					
Mol Flow	KMOL/HR	1116.53					
Mol Flow (Vapour)	KMOL/HR	1116.53					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	37.994					
Pressure	BAR	26.500					
Enthalpy	KW	122.32					
Mol. Weight (Vapour)	KG/KMOL	2.035					
Components (Total):							
H2	WEIGHT-FRAC	0.9897					
N2	WEIGHT-FRAC	0.009086					
CO	WEIGHT-FRAC	0.000138					
CH4	WEIGHT-FRAC	0.000631					
HE	WEIGHT-FRAC	0.000492					
Components (Total):							
H2	MOL-%	99.900					
N2	MOL-%	0.0660					
CO	MOL-%	0.001000					
CH4	MOL-%	0.008000					
HE	MOL-%	0.0250					



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PU 18 Streamno 31 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	8232.41					
Mass Flow	KG/HR	6620.32					
Mol Flow	KMOL/HR	367.30					
Mol Flow (Liquid)	KMOL/HR	367.30					
Vapour Fraction	WEIGHT-FRAC	0					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	1.000					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	154.58					
Pressure	BAR	27.900					
Enthalpy	KW	-28168					
Mol. Weight (Liquid)	KG/KMOL	18.025					
Components (Total):							
H2	WEIGHT-FRAC	0.00004037					
N2	WEIGHT-FRAC	0.00000282					
CO	WEIGHT-FRAC	0.00001349					
CO2	WEIGHT-FRAC	0.001403					
H2O	WEIGHT-FRAC	0.9985					
CH4	WEIGHT-FRAC	0.00001825					
HE	WEIGHT-FRAC	2.2319E-09					
Components (Total):							
H2	MOL-%	0.0361					
N2	MOL-%	0.000181					
CO	MOL-%	0.000868					
CO2	MOL-%	0.0575					
H2O	MOL-%	99.903					
CH4	MOL-%	0.002051					
HE	MOL-%	0.00000101					



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PU 18 Streamno 32 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	8232.41					
Mass Flow	KG/HR	6620.32					
Mol Flow	KMOL/HR	367.30					
Mol Flow (Liquid)	KMOL/HR	367.30					
Vapour Fraction	WEIGHT-FRAC	0					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	1.000					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	154.58					
Pressure	BAR	27.900					
Enthalpy	KW	-28168					
Mol. Weight (Liquid)	KG/KMOL	18.025					
Components (Total):							
H2	WEIGHT-FRAC	0.00004037					
N2	WEIGHT-FRAC	0.00000282					
CO	WEIGHT-FRAC	0.00001349					
CO2	WEIGHT-FRAC	0.001403					
H2O	WEIGHT-FRAC	0.9985					
CH4	WEIGHT-FRAC	0.00001825					
HE	WEIGHT-FRAC	2.2319E-09					
Components (Total):							
H2	MOL-%	0.0361					
N2	MOL-%	0.000181					
CO	MOL-%	0.000868					
CO2	MOL-%	0.0575					
H2O	MOL-%	99.903					
CH4	MOL-%	0.002051					
HE	MOL-%	0.00000101					



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PU 18 Streamno 33 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	8232.41					
Mass Flow	KG/HR	6620.32					
Mol Flow	KMOL/HR	367.30					
Mol Flow (Vapour)	KMOL/HR	33.987					
Mol Flow (Liquid)	KMOL/HR	333.31					
Vapour Fraction	WEIGHT-FRAC	0.0930					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0.9070					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	106.96					
Pressure	BAR	1.300					
Enthalpy	KW	-28168					
Mol. Weight (Vapour)	KG/KMOL	18.115					
Mol. Weight (Liquid)	KG/KMOL	18.015					
Components (Total):							
H2	WEIGHT-FRAC	0.00004037					
N2	WEIGHT-FRAC	0.00000282					
CO	WEIGHT-FRAC	0.00001349					
CO2	WEIGHT-FRAC	0.001403					
H2O	WEIGHT-FRAC	0.9985					
CH4	WEIGHT-FRAC	0.00001825					
HE	WEIGHT-FRAC	2.2319E-09					
Components (Total):							
H2	MOL-%	0.0361					
N2	MOL-%	0.000181					
CO	MOL-%	0.000868					
CO2	MOL-%	0.0575					
H2O	MOL-%	99.903					
CH4	MOL-%	0.002051					
HE	MOL-%	0.00000101					



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PU 18 Streamno 37 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	9912.06					
Mass Flow	KG/HR	7990.47					
Mol Flow	KMOL/HR	442.23					
Mol Flow (Liquid)	KMOL/HR	442.23					
Vapour Fraction	WEIGHT-FRAC	0					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	1.000					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	33.000					
Pressure	BAR	27.300					
Enthalpy	KW	-35078					
Mol. Weight (Liquid)	KG/KMOL	18.068					
Components (Total):							
H2	WEIGHT-FRAC	0.00003141					
N2	WEIGHT-FRAC	0.00000344					
CO	WEIGHT-FRAC	0.00001847					
CO2	WEIGHT-FRAC	0.005394					
H2O	WEIGHT-FRAC	0.9945					
CH4	WEIGHT-FRAC	0.00003007					
HE	WEIGHT-FRAC	4.0419E-11					
Components (Total):							
H2	MOL-%	0.0281					
N2	MOL-%	0.000222					
CO	MOL-%	0.001192					
CO2	MOL-%	0.2214					
H2O	MOL-%	99.746					
CH4	MOL-%	0.003387					
HE	MOL-%	1.8246E-08					



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PU 18 Streamno 38 Base Case 1

Property	Case-> 1							
	Dimension	100% load, NOC						
Standard Flow	NM3/HR	9912.06						
Mass Flow	KG/HR	7990.47						
Mol Flow	KMOL/HR	442.23						
Mol Flow (Vapour)	KMOL/HR	0.5432						
Mol Flow (Liquid)	KMOL/HR	441.69						
Vapour Fraction	WEIGHT-FRAC	0.002277						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0.9977						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	33.290						
Pressure	BAR	3.600						
Enthalpy	KW	-35078						
Mol. Weight (Vapour)	KG/KMOL	33.492						
Mol. Weight (Liquid)	KG/KMOL	18.049						
Components (Total):								
H2	WEIGHT-FRAC	0.00003141						
N2	WEIGHT-FRAC	0.00000344						
CO	WEIGHT-FRAC	0.00001847						
CO2	WEIGHT-FRAC	0.005394						
H2O	WEIGHT-FRAC	0.9945						
CH4	WEIGHT-FRAC	0.00003007						
HE	WEIGHT-FRAC	4.0419E-11						
Components (Total):								
H2	MOL-%	0.0281						
N2	MOL-%	0.000222						
CO	MOL-%	0.001192						
CO2	MOL-%	0.2214						
H2O	MOL-%	99.746						
CH4	MOL-%	0.003387						
HE	MOL-%	1.8246E-08						





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PU 18 Streamno 41 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	2384.14						
Mass Flow	KG/HR	1916.29						
Mol Flow	KMOL/HR	106.37						
Mol Flow (Liquid)	KMOL/HR	106.37						
Vapour Fraction	WEIGHT-FRAC	0						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	1.000						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	290.24						
Pressure	BAR	75.000						
Enthalpy	KW	-669.06						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 42 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	2384.14						
Mass Flow	KG/HR	1916.29						
Mol Flow	KMOL/HR	106.37						
Mol Flow (Vapour)	KMOL/HR	34.997						
Mol Flow (Liquid)	KMOL/HR	71.373						
Vapour Fraction	WEIGHT-FRAC	0.3290						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0.6710						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	138.95						
Pressure	BAR	3.500						
Enthalpy	KW	-669.06						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 43 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	1599.72						
Mass Flow	KG/HR	1285.80						
Mol Flow	KMOL/HR	71.373						
Mol Flow (Liquid)	KMOL/HR	71.373						
Vapour Fraction	WEIGHT-FRAC	0						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	1.000						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	138.95						
Pressure	BAR	3.500						
Enthalpy	KW	-701.25						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 44 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	1599.72						
Mass Flow	KG/HR	1285.80						
Mol Flow	KMOL/HR	71.373						
Mol Flow (Vapour)	KMOL/HR	0.7515						
Mol Flow (Liquid)	KMOL/HR	70.621						
Vapour Fraction	WEIGHT-FRAC	0.0105						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0.9895						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	133.60						
Pressure	BAR	3.000						
Enthalpy	KW	-5499.09						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 45 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	784.42						
Mass Flow	KG/HR	630.49						
Mol Flow	KMOL/HR	34.997						
Mol Flow (Vapour)	KMOL/HR	34.997						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	138.91						
Pressure	BAR	3.500						
Enthalpy	KW	-2320.39						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 46 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	784.42						
Mass Flow	KG/HR	630.49						
Mol Flow	KMOL/HR	34.997						
Mol Flow (Vapour)	KMOL/HR	34.997						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	129.04						
Pressure	BAR	1.300						
Enthalpy	KW	-2320.39						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 47 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	166.13						
Mass Flow	KG/HR	133.53						
Mol Flow	KMOL/HR	7.412						
Mol Flow (Vapour)	KMOL/HR	7.412						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	157.00						
Pressure	BAR	3.900						
Enthalpy	KW	-490.08						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 48 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	166.13						
Mass Flow	KG/HR	133.53						
Mol Flow	KMOL/HR	7.412						
Mol Flow (Vapour)	KMOL/HR	7.412						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	147.20						
Pressure	BAR	1.300						
Enthalpy	KW	-490.08						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						





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PU 18 Streamno 49 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	950.55						
Mass Flow	KG/HR	764.02						
Mol Flow	KMOL/HR	42.410						
Mol Flow (Vapour)	KMOL/HR	42.410						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	132.21						
Pressure	BAR	1.300						
Enthalpy	KW	-2810.47						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 51 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	13690					
Mass Flow	KG/HR	16652					
Mol Flow	KMOL/HR	610.78					
Mol Flow (Vapour)	KMOL/HR	610.78					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	27.984					
Pressure	BAR	1.300					
Enthalpy	KW	-36051					
Mol. Weight (Vapour)	KG/KMOL	27.264					
Components (Total):							
H2	WEIGHT-FRAC	0.0186					
N2	WEIGHT-FRAC	0.0221					
CO	WEIGHT-FRAC	0.0812					
CO2	WEIGHT-FRAC	0.7814					
H2O	WEIGHT-FRAC	0.003775					
CH4	WEIGHT-FRAC	0.0929					
HE	WEIGHT-FRAC	0.00000105					
Components (Total):							
H2	MOL-%	25.182					
N2	MOL-%	2.153					
CO	MOL-%	7.900					
CO2	MOL-%	48.410					
H2O	MOL-%	0.5714					
CH4	MOL-%	15.783					
HE	MOL-%	0.000714					



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PU 18 Streamno 52 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	13690					
Mass Flow	KG/HR	16652					
Mol Flow	KMOL/HR	610.78					
Mol Flow (Vapour)	KMOL/HR	610.78					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	27.910					
Pressure	BAR	1.150					
Enthalpy	KW	-36051					
Mol. Weight (Vapour)	KG/KMOL	27.264					
Components (Total):							
H2	WEIGHT-FRAC	0.0186					
N2	WEIGHT-FRAC	0.0221					
CO	WEIGHT-FRAC	0.0812					
CO2	WEIGHT-FRAC	0.7814					
H2O	WEIGHT-FRAC	0.003775					
CH4	WEIGHT-FRAC	0.0929					
HE	WEIGHT-FRAC	0.00000105					
Components (Total):							
H2	MOL-%	25.182					
N2	MOL-%	2.153					
CO	MOL-%	7.900					
CO2	MOL-%	48.410					
H2O	MOL-%	0.5714					
CH4	MOL-%	15.783					
HE	MOL-%	0.000714					



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PU 18 Streamno 53 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	14522					
Mass Flow	KG/HR	17336					
Mol Flow	KMOL/HR	647.90					
Mol Flow (Vapour)	KMOL/HR	647.90					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	26.740					
Pressure	BAR	1.150					
Enthalpy	KW	-36843					
Mol. Weight (Vapour)	KG/KMOL	26.757					
Components (Total):							
H2	WEIGHT-FRAC	0.0179					
N2	WEIGHT-FRAC	0.0233					
CO	WEIGHT-FRAC	0.0780					
CO2	WEIGHT-FRAC	0.7513					
H2O	WEIGHT-FRAC	0.003627					
CH4	WEIGHT-FRAC	0.1189					
C2H6	WEIGHT-FRAC	0.004585					
C3H8	WEIGHT-FRAC	0.001530					
I C4H10	WEIGHT-FRAC	0.000249					
C4H10	WEIGHT-FRAC	0.000373					
C5H12	WEIGHT-FRAC	0.000170					
C6H14	WEIGHT-FRAC	0.00009227					
HE	WEIGHT-FRAC	0.00000701					
Components (Total):							
H2	MOL-%	23.739					
N2	MOL-%	2.227					
CO	MOL-%	7.447					
CO2	MOL-%	45.679					
H2O	MOL-%	0.5386					
CH4	MOL-%	19.827					
C2H6	MOL-%	0.4080					
C3H8	MOL-%	0.0928					
I C4H10	MOL-%	0.0115					
C4H10	MOL-%	0.0172					
C5H12	MOL-%	0.006303					
C6H14	MOL-%	0.002865					
HE	MOL-%	0.004684					



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PU 18 Streamno 55 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	832.09					
Mass Flow	KG/HR	683.55					
Mol Flow	KMOL/HR	37.124					
Mol Flow (Vapour)	KMOL/HR	37.124					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	20.000					
Pressure	BAR	21.000					
Enthalpy	KW	-792.12					
Mol. Weight (Vapour)	KG/KMOL	18.413					
Components (Total):							
N2	WEIGHT-FRAC	0.0522					
CO2	WEIGHT-FRAC	0.0177					
CH4	WEIGHT-FRAC	0.7525					
C2H6	WEIGHT-FRAC	0.1163					
C3H8	WEIGHT-FRAC	0.0388					
I C4H10	WEIGHT-FRAC	0.006314					
C4H10	WEIGHT-FRAC	0.009470					
C5H12	WEIGHT-FRAC	0.004310					
C6H14	WEIGHT-FRAC	0.002340					
HE	WEIGHT-FRAC	0.000152					
Components (Total):							
N2	MOL-%	3.430					
CO2	MOL-%	0.7400					
CH4	MOL-%	86.360					
C2H6	MOL-%	7.120					
C3H8	MOL-%	1.620					
I C4H10	MOL-%	0.2000					
C4H10	MOL-%	0.3000					
C5H12	MOL-%	0.1100					
C6H14	MOL-%	0.0500					
HE	MOL-%	0.0700					



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PU 18 Streamno 56 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	832.09					
Mass Flow	KG/HR	683.55					
Mol Flow	KMOL/HR	37.124					
Mol Flow (Vapour)	KMOL/HR	37.124					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	9.526					
Pressure	BAR	1.150					
Enthalpy	KW	-792.12					
Mol. Weight (Vapour)	KG/KMOL	18.413					
Components (Total):							
N2	WEIGHT-FRAC	0.0522					
CO2	WEIGHT-FRAC	0.0177					
CH4	WEIGHT-FRAC	0.7525					
C2H6	WEIGHT-FRAC	0.1163					
C3H8	WEIGHT-FRAC	0.0388					
I C4H10	WEIGHT-FRAC	0.006314					
C4H10	WEIGHT-FRAC	0.009470					
C5H12	WEIGHT-FRAC	0.004310					
C6H14	WEIGHT-FRAC	0.002340					
HE	WEIGHT-FRAC	0.000152					
Components (Total):							
N2	MOL-%	3.430					
CO2	MOL-%	0.7400					
CH4	MOL-%	86.360					
C2H6	MOL-%	7.120					
C3H8	MOL-%	1.620					
I C4H10	MOL-%	0.2000					
C4H10	MOL-%	0.3000					
C5H12	MOL-%	0.1100					
C6H14	MOL-%	0.0500					
HE	MOL-%	0.0700					



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PU 18 Streamno 61 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	44560						
Mass Flow	KG/HR	56796						
Mol Flow	KMOL/HR	1988.08						
Mol Flow (Vapour)	KMOL/HR	1988.08						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	30.000						
Pressure	BAR	1.013						
Enthalpy	KW	-4684.57						
Mol. Weight (Vapour)	KG/KMOL	28.568						
Components (Total):								
N2	WEIGHT-FRAC	0.7388						
AR	WEIGHT-FRAC	0.0124						
O2	WEIGHT-FRAC	0.2263						
H2O	WEIGHT-FRAC	0.0225						
Components (Total):								
N2	MOL-%	75.346						
AR	MOL-%	0.8872						
O2	MOL-%	20.204						
H2O	MOL-%	3.563						



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PU 18 Streamno 62 Base Case 1

Property	Case-> Dimension	1 100% load, NOC						
Standard Flow	NM3/HR	44560						
Mass Flow	KG/HR	56796						
Mol Flow	KMOL/HR	1988.08						
Mol Flow (Vapour)	KMOL/HR	1988.08						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	35.742						
Pressure	BAR	1.068						
Enthalpy	KW	-4591.86						
Mol. Weight (Vapour)	KG/KMOL	28.568						
Components (Total):								
N2	WEIGHT-FRAC	0.7388						
AR	WEIGHT-FRAC	0.0124						
O2	WEIGHT-FRAC	0.2263						
H2O	WEIGHT-FRAC	0.0225						
Components (Total):								
N2	MOL-%	75.346						
AR	MOL-%	0.8872						
O2	MOL-%	20.204						
H2O	MOL-%	3.563						





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PU 18 Streamno 63 Base Case 1

Property	Case-> Dimension	1 100% load, NOC						
Standard Flow	NM3/HR	44560						
Mass Flow	KG/HR	56796						
Mol Flow	KMOL/HR	1988.08						
Mol Flow (Vapour)	KMOL/HR	1988.08						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	295.24						
Pressure	BAR	1.023						
Enthalpy	KW	-326.78						
Mol. Weight (Vapour)	KG/KMOL	28.568						
Components (Total):								
N2	WEIGHT-FRAC	0.7388						
AR	WEIGHT-FRAC	0.0124						
O2	WEIGHT-FRAC	0.2263						
H2O	WEIGHT-FRAC	0.0225						
Components (Total):								
N2	MOL-%	75.346						
AR	MOL-%	0.8872						
O2	MOL-%	20.204						
H2O	MOL-%	3.563						



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PU 18 Streamno 64 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	44560						
Mass Flow	KG/HR	56796						
Mol Flow	KMOL/HR	1988.08						
Mol Flow (Vapour)	KMOL/HR	1988.08						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	400.00						
Pressure	BAR	1.023						
Enthalpy	KW	1455.87						
Mol. Weight (Vapour)	KG/KMOL	28.568						
Components (Total):								
N2	WEIGHT-FRAC	0.7388						
AR	WEIGHT-FRAC	0.0124						
O2	WEIGHT-FRAC	0.2263						
H2O	WEIGHT-FRAC	0.0225						
Components (Total):								
N2	MOL-%	75.346						
AR	MOL-%	0.8872						
O2	MOL-%	20.204						
H2O	MOL-%	3.563						



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PU 18 Streamno 65 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	56870					
Mass Flow	KG/HR	74132					
Mol Flow	KMOL/HR	2537.31					
Mol Flow (Vapour)	KMOL/HR	2537.31					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	969.66					
Pressure	BAR	1.012					
Enthalpy	KW	-61953					
Mol. Weight (Vapour)	KG/KMOL	29.217					
Components (Total):							
N2	WEIGHT-FRAC	0.5715					
AR	WEIGHT-FRAC	0.009505					
O2	WEIGHT-FRAC	0.0128					
CO2	WEIGHT-FRAC	0.2854					
H2O	WEIGHT-FRAC	0.1207					
HE	WEIGHT-FRAC	0.00000164					
Components (Total):							
N2	MOL-%	59.605					
AR	MOL-%	0.6952					
O2	MOL-%	1.173					
CO2	MOL-%	18.950					
H2O	MOL-%	19.576					
HE	MOL-%	0.001196					



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PU 18 Streamno 66 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	56871					
Mass Flow	KG/HR	74133					
Mol Flow	KMOL/HR	2537.32					
Mol Flow (Vapour)	KMOL/HR	2537.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	808.01					
Pressure	BAR	1.012					
Enthalpy	KW	-66460					
Mol. Weight (Vapour)	KG/KMOL	29.217					
Components (Total):							
N2	WEIGHT-FRAC	0.5715					
AR	WEIGHT-FRAC	0.009505					
O2	WEIGHT-FRAC	0.0128					
CO2	WEIGHT-FRAC	0.2854					
H2O	WEIGHT-FRAC	0.1207					
HE	WEIGHT-FRAC	0.00000164					
Components (Total):							
N2	MOL-%	59.605					
AR	MOL-%	0.6952					
O2	MOL-%	1.173					
CO2	MOL-%	18.950					
H2O	MOL-%	19.576					
HE	MOL-%	0.001196					



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PU 18 Streamno 67 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	56871					
Mass Flow	KG/HR	74133					
Mol Flow	KMOL/HR	2537.32					
Mol Flow (Vapour)	KMOL/HR	2537.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	628.96					
Pressure	BAR	1.012					
Enthalpy	KW	-71290					
Mol. Weight (Vapour)	KG/KMOL	29.217					
Components (Total):							
N2	WEIGHT-FRAC	0.5715					
AR	WEIGHT-FRAC	0.009505					
O2	WEIGHT-FRAC	0.0128					
CO2	WEIGHT-FRAC	0.2854					
H2O	WEIGHT-FRAC	0.1207					
HE	WEIGHT-FRAC	0.00000164					
Components (Total):							
N2	MOL-%	59.605					
AR	MOL-%	0.6952					
O2	MOL-%	1.173					
CO2	MOL-%	18.950					
H2O	MOL-%	19.576					
HE	MOL-%	0.001196					



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PU 18 Streamno 68 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	56871					
Mass Flow	KG/HR	74133					
Mol Flow	KMOL/HR	2537.32					
Mol Flow (Vapour)	KMOL/HR	2537.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	561.05					
Pressure	BAR	1.012					
Enthalpy	KW	-73072					
Mol. Weight (Vapour)	KG/KMOL	29.217					
Components (Total):							
N2	WEIGHT-FRAC	0.5715					
AR	WEIGHT-FRAC	0.009505					
O2	WEIGHT-FRAC	0.0128					
CO2	WEIGHT-FRAC	0.2854					
H2O	WEIGHT-FRAC	0.1207					
HE	WEIGHT-FRAC	0.00000164					
Components (Total):							
N2	MOL-%	59.605					
AR	MOL-%	0.6952					
O2	MOL-%	1.173					
CO2	MOL-%	18.950					
H2O	MOL-%	19.576					
HE	MOL-%	0.001196					



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PU 18 Streamno 69 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	56871					
Mass Flow	KG/HR	74133					
Mol Flow	KMOL/HR	2537.32					
Mol Flow (Vapour)	KMOL/HR	2537.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	340.24					
Pressure	BAR	1.012					
Enthalpy	KW	-78651					
Mol. Weight (Vapour)	KG/KMOL	29.217					
Components (Total):							
N2	WEIGHT-FRAC	0.5715					
AR	WEIGHT-FRAC	0.009505					
O2	WEIGHT-FRAC	0.0128					
CO2	WEIGHT-FRAC	0.2854					
H2O	WEIGHT-FRAC	0.1207					
HE	WEIGHT-FRAC	0.00000164					
Components (Total):							
N2	MOL-%	59.605					
AR	MOL-%	0.6952					
O2	MOL-%	1.173					
CO2	MOL-%	18.950					
H2O	MOL-%	19.576					
HE	MOL-%	0.001196					



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PU 18 Streamno 70 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	56871					
Mass Flow	KG/HR	74133					
Mol Flow	KMOL/HR	2537.32					
Mol Flow (Vapour)	KMOL/HR	2537.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	161.36					
Pressure	BAR	1.012					
Enthalpy	KW	-82916					
Mol. Weight (Vapour)	KG/KMOL	29.217					
Components (Total):							
N2	WEIGHT-FRAC	0.5715					
AR	WEIGHT-FRAC	0.009505					
O2	WEIGHT-FRAC	0.0128					
CO2	WEIGHT-FRAC	0.2854					
H2O	WEIGHT-FRAC	0.1207					
HE	WEIGHT-FRAC	0.00000164					
Components (Total):							
N2	MOL-%	59.605					
AR	MOL-%	0.6952					
O2	MOL-%	1.173					
CO2	MOL-%	18.950					
H2O	MOL-%	19.576					
HE	MOL-%	0.001196					





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PU 18 Streamno 71 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	56871					
Mass Flow	KG/HR	74133					
Mol Flow	KMOL/HR	2537.32					
Mol Flow (Vapour)	KMOL/HR	2537.32					
Vapour Fraction	WEIGHT-FRAC	1.000					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	168.48					
Pressure	BAR	1.013					
Enthalpy	KW	-82751					
Mol. Weight (Vapour)	KG/KMOL	29.217					
Components (Total):							
N2	WEIGHT-FRAC	0.5715					
AR	WEIGHT-FRAC	0.009505					
O2	WEIGHT-FRAC	0.0128					
CO2	WEIGHT-FRAC	0.2854					
H2O	WEIGHT-FRAC	0.1207					
HE	WEIGHT-FRAC	0.00000164					
Components (Total):							
N2	MOL-%	59.605					
AR	MOL-%	0.6952					
O2	MOL-%	1.173					
CO2	MOL-%	18.950					
H2O	MOL-%	19.576					
HE	MOL-%	0.001196					



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PU 18 Streamno 73 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	180579						
Mass Flow	KG/HR	145143						
Mol Flow	KMOL/HR	8056.68						
Mol Flow (Liquid)	KMOL/HR	8056.68						
Vapour Fraction	WEIGHT-FRAC	0						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	1.000						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	30.000						
Pressure	BAR	4.000						
Enthalpy	KW	-639236						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 74 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	180579						
Mass Flow	KG/HR	145143						
Mol Flow	KMOL/HR	8056.68						
Mol Flow (Liquid)	KMOL/HR	8056.68						
Vapour Fraction	WEIGHT-FRAC	0						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	1.000						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	33.003						
Pressure	BAR	3.300						
Enthalpy	KW	-638733						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 81 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	29526						
Mass Flow	KG/HR	23732						
Mol Flow	KMOL/HR	1317.32						
Mol Flow (Liquid)	KMOL/HR	1317.32						
Vapour Fraction	WEIGHT-FRAC	0						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	1.000						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	40.000						
Pressure	BAR	6.900						
Enthalpy	KW	-104242						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 82 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	29526						
Mass Flow	KG/HR	23732						
Mol Flow	KMOL/HR	1317.32						
Mol Flow (Liquid)	KMOL/HR	1317.32						
Vapour Fraction	WEIGHT-FRAC	0						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	1.000						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	40.070						
Pressure	BAR	3.600						
Enthalpy	KW	-104242						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 83 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	39438					
Mass Flow	KG/HR	31722					
Mol Flow	KMOL/HR	1759.56					
Mol Flow (Liquid)	KMOL/HR	1759.43					
Vapour Fraction	WEIGHT-FRAC	0.00007289					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0.9999					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	38.411					
Pressure	BAR	3.600					
Enthalpy	KW	-139321					
Mol. Weight (Liquid)	KG/KMOL	18.029					
Components (Total):							
H2	WEIGHT-FRAC	0.00000791					
N2	WEIGHT-FRAC	8.6716E-07					
CO	WEIGHT-FRAC	0.00000465					
CO2	WEIGHT-FRAC	0.001359					
H2O	WEIGHT-FRAC	0.9986					
CH4	WEIGHT-FRAC	0.00000757					
HE	WEIGHT-FRAC	1.0181E-11					
Components (Total):							
H2	MOL-%	0.007074					
N2	MOL-%	0.00005581					
CO	MOL-%	0.000299					
CO2	MOL-%	0.0557					
H2O	MOL-%	99.936					
CH4	MOL-%	0.000851					
HE	MOL-%	4.5858E-09					



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PU 18 Streamno 84 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	39438					
Mass Flow	KG/HR	31722					
Mol Flow	KMOL/HR	1759.56					
Mol Flow (Liquid)	KMOL/HR	1758.94					
Vapour Fraction	WEIGHT-FRAC	0.000572					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	0.9994					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	95.000					
Pressure	BAR	3.300					
Enthalpy	KW	-137229					
Mol. Weight (Liquid)	KG/KMOL	18.025					
Components (Total):							
H2	WEIGHT-FRAC	0.00000791					
N2	WEIGHT-FRAC	8.6715E-07					
CO	WEIGHT-FRAC	0.00000465					
CO2	WEIGHT-FRAC	0.001359					
H2O	WEIGHT-FRAC	0.9986					
CH4	WEIGHT-FRAC	0.00000757					
HE	WEIGHT-FRAC	1.0181E-11					
Components (Total):							
H2	MOL-%	0.007074					
N2	MOL-%	0.00005581					
CO	MOL-%	0.000299					
CO2	MOL-%	0.0557					
H2O	MOL-%	99.936					
CH4	MOL-%	0.000851					
HE	MOL-%	4.5858E-09					



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PU 18 Streamno 85 Base Case 1

Property	Case-> Dimension	1 100% load, NOC					
Standard Flow	NM3/HR	47681					
Mass Flow	KG/HR	38325					
Mol Flow	KMOL/HR	2127.33					
Mol Flow (Liquid)	KMOL/HR	2127.33					
Vapour Fraction	WEIGHT-FRAC	0					
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0					
Liquid Fraction	WEIGHT-FRAC	1.000					
Solid Fraction	WEIGHT-FRAC	0					
Temperature	CEL	106.22					
Pressure	BAR	1.300					
Enthalpy	KW	-165387					
Mol. Weight (Liquid)	KG/KMOL	18.015					
Components (Total):							
H2	WEIGHT-FRAC	1.4232E-08					
N2	WEIGHT-FRAC	6.3183E-10					
CO	WEIGHT-FRAC	4.7182E-09					
CO2	WEIGHT-FRAC	0.00001709					
H2O	WEIGHT-FRAC	1.0000					
CH4	WEIGHT-FRAC	9.2502E-09					
HE	WEIGHT-FRAC	1.7607E-14					
Components (Total):							
H2	MOL-%	0.00001272					
N2	MOL-%	4.0633E-08					
CO	MOL-%	3.0346E-07					
CO2	MOL-%	0.000700					
H2O	MOL-%	99.999					
CH4	MOL-%	0.00000104					
HE	MOL-%	7.9247E-12					





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PU 18 Streamno 86 Base Case 1

Property	Case-> Dimension	1 100% load, NOC						
Standard Flow	NM3/HR	939.83						
Mass Flow	KG/HR	781.94						
Mol Flow	KMOL/HR	41.931						
Mol Flow (Vapour)	KMOL/HR	41.931						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	106.22						
Pressure	BAR	1.300						
Enthalpy	KW	-2820.38						
Mol. Weight (Vapour)	KG/KMOL	18.648						
Components (Total):								
H2	WEIGHT-FRAC	0.000662						
N2	WEIGHT-FRAC	0.00005902						
CO	WEIGHT-FRAC	0.000303						
CO2	WEIGHT-FRAC	0.0662						
H2O	WEIGHT-FRAC	0.9323						
CH4	WEIGHT-FRAC	0.000462						
HE	WEIGHT-FRAC	1.9294E-08						
Components (Total):								
H2	MOL-%	0.6123						
N2	MOL-%	0.003929						
CO	MOL-%	0.0202						
CO2	MOL-%	2.806						
H2O	MOL-%	96.504						
CH4	MOL-%	0.0536						
HE	MOL-%	0.00000899						



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PU 18 Streamno 87 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	47681						
Mass Flow	KG/HR	38325						
Mol Flow	KMOL/HR	2127.34						
Mol Flow (Liquid)	KMOL/HR	2127.34						
Vapour Fraction	WEIGHT-FRAC	0						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	1.000						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	109.40						
Pressure	BAR	90.000						
Enthalpy	KW	-165175						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 88 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	47681						
Mass Flow	KG/HR	38325						
Mol Flow	KMOL/HR	2127.34						
Mol Flow (Liquid)	KMOL/HR	2127.34						
Vapour Fraction	WEIGHT-FRAC	0						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	1.000						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	109.61						
Pressure	BAR	77.800						
Enthalpy	KW	-22172						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 89 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	47681						
Mass Flow	KG/HR	38325						
Mol Flow	KMOL/HR	2127.34						
Mol Flow (Liquid)	KMOL/HR	2127.34						
Vapour Fraction	WEIGHT-FRAC	0						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	1.000						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	228.10						
Pressure	BAR	76.800						
Enthalpy	KW	-16667						
Mol. Weight (Liquid)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 90 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	45297						
Mass Flow	KG/HR	36408						
Mol Flow	KMOL/HR	2020.97						
Mol Flow (Vapour)	KMOL/HR	2020.97						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	290.24						
Pressure	BAR	75.000						
Enthalpy	KW	2198.24						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 91 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	45297						
Mass Flow	KG/HR	36408						
Mol Flow	KMOL/HR	2020.97						
Mol Flow (Vapour)	KMOL/HR	2020.97						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	434.23						
Pressure	BAR	74.000						
Enthalpy	KW	-128824						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 92 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	12852						
Mass Flow	KG/HR	10330						
Mol Flow	KMOL/HR	573.42						
Mol Flow (Vapour)	KMOL/HR	573.42						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	434.23						
Pressure	BAR	74.000						
Enthalpy	KW	-36552						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 93 Base Case 1

Property	Dimension	Case->						
		1 100% load, NOC						
Standard Flow	NM3/HR	12852						
Mass Flow	KG/HR	10330						
Mol Flow	KMOL/HR	573.42						
Mol Flow (Vapour)	KMOL/HR	573.42						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	420.00						
Pressure	BAR	52.000						
Enthalpy	KW	-36552						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						





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PU 18 Streamno 94 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	32445						
Mass Flow	KG/HR	26078						
Mol Flow	KMOL/HR	1447.55						
Mol Flow (Vapour)	KMOL/HR	1447.55						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	434.23						
Pressure	BAR	74.000						
Enthalpy	KW	-92272						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 95 Base Case 1

Property	Dimension	Case->						
		1						
		100% load, NOC						
Standard Flow	NM3/HR	32445						
Mass Flow	KG/HR	26078						
Mol Flow	KMOL/HR	1447.55						
Mol Flow (Vapour)	KMOL/HR	1447.55						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	430.12						
Pressure	BAR	67.500						
Enthalpy	KW	-92272						
Mol. Weight (Vapour)	KG/KMOL	18.015						
Components (Total):								
H2O	WEIGHT-FRAC	1.000						
Components (Total):								
H2O	MOL-%	100.00						



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PU 18 Streamno 111 Base Case 1

Property	Case-> 1							
	Dimension	100% load, NOC						
Standard Flow	NM3/HR	280.00						
Mass Flow	KG/HR	25.422						
Mol Flow	KMOL/HR	12.492						
Mol Flow (Vapour)	KMOL/HR	12.492						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	37.984						
Pressure	BAR	26.800						
Enthalpy	KW	1.369						
Mol. Weight (Vapour)	KG/KMOL	2.035						
Components (Total):								
H2	WEIGHT-FRAC	0.9897						
N2	WEIGHT-FRAC	0.009086						
CO	WEIGHT-FRAC	0.000138						
CH4	WEIGHT-FRAC	0.000631						
HE	WEIGHT-FRAC	0.000492						
Components (Total):								
H2	MOL-%	99.900						
N2	MOL-%	0.0660						
CO	MOL-%	0.001000						
CH4	MOL-%	0.008000						
HE	MOL-%	0.0250						



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PU 18 Streamno 112 Base Case 1

Property	Case-> 1							
	Dimension	100% load, NOC						
Standard Flow	NM3/HR	280.00						
Mass Flow	KG/HR	25.422						
Mol Flow	KMOL/HR	12.492						
Mol Flow (Vapour)	KMOL/HR	12.492						
Vapour Fraction	WEIGHT-FRAC	1.000						
Liquid Fraction (2. Liq. Phase)	WEIGHT-FRAC	0						
Liquid Fraction	WEIGHT-FRAC	0						
Solid Fraction	WEIGHT-FRAC	0						
Temperature	CEL	38.196						
Pressure	BAR	20.300						
Enthalpy	KW	1.369						
Mol. Weight (Vapour)	KG/KMOL	2.035						
Components (Total):								
H2	WEIGHT-FRAC	0.9897						
N2	WEIGHT-FRAC	0.009086						
CO	WEIGHT-FRAC	0.000138						
CH4	WEIGHT-FRAC	0.000631						
HE	WEIGHT-FRAC	0.000492						
Components (Total):								
H2	MOL-%	99.900						
N2	MOL-%	0.0660						
CO	MOL-%	0.001000						
CH4	MOL-%	0.008000						
HE	MOL-%	0.0250						