

Industries

We have over 100 years of valuation experience as a team and some of the industries we have valued include:

- Oil Refineries
- Oil/Gas Field Facilities
- Petrochemical Complexes
- Chemical Plants
- LNG/NGL Facilities
- Desalination Plants
- Power Stations and Public Utilities
- Pipelines and Terminals
- Offshore Platforms
- Iron and Steel Works
- Aluminium Smelting and Rolling
- Food Industry
- Pharmaceuticals
- Manufacturing (Heavy & Light)

Countries

These are some of the countries we have worked in:

- Abu Dhabi • Albania • Algeria • Antigua • Argentina • Australia
- Austria • Azerbaijan • Azores • Bahrain • Belgium • Belize
- Benin • Bermuda • Bonaire • Brazil • British Virgin Islands
- Brunei • Bulgaria • Canada • Canary Islands • Cayman Islands
- China • Colombia • Costa Rica • Croatia • Curacao • Cyprus
- Czech Republic • Denmark • Djibouti • Dominica
- Dominican Republic • Dubai • Ecuador • Egypt • El Salvador
- Ethiopia • Finland • France • FYROM • Georgia • Germany
- Ghana • Gibraltar • Greece • Grenada • Guatemala • Haiti
- Honduras • Hong Kong • Hungary • India • Indonesia • Iran • Iraq
- Ireland • Italy • Ivory Coast • Jamaica • Jordan • Kazakhstan
- Korea • Kuwait • Kyrgyzstan • Laos • Libya • Malaysia • Malta
- Mexico • Monaco • Montenegro • Morocco • Mozambique
- Myanmar • Nicaragua • Netherlands • New Zealand • Nigeria
- Norway • Oman • Pakistan • Papua New Guinea • Peru
- Philippines • Poland • Portugal • Qatar • Ras Al Khaima • Russia
- Sabah • Sarawak • Saudi Arabia • Sharjah • Singapore
- Slovak Republic • South Africa • Spain • Sri Lanka • St Vincent
- Sudan • Sweden • Switzerland • Tanzania • Thailand • Trinidad
- Turkey • Turks and Caicos • Ukraine • United Kingdom
- United States of America • Venezuela • Vietnam • Zambia

The Core Team

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Appraisal & Valuation Consultants Ltd

Please choose a type of item from the list below:

<ul style="list-style-type: none">A. BoilersB. BuildingsC. ChimneysD. CompressorsE. Concrete TanksF. Cooling TowersG. GeneratorsH. Heat Exchangers Air CoolersI. Heat Exchangers Shell and TubeJ. Heaters & FurnacesK. PumpsL. TanksM. TransformersN. VesselsO. Vessel InternalsP. Miscellaneous	<ul style="list-style-type: none">▶ Modules▶ Reports▶ Location▶ Data Link
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Current Data File: UNIT 0100 CRUDE DISTILLATION 2004.mdb



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*Specialists in
Insurance Valuations*



VALUSOLV® SYSTEM Our solution to your valuation problems

AVC VALUSOLV® is our in-house software application developed to suit our Clients needs.

Our engineers have used AVC VALUSOLV® on many worldwide assignments with great success, and found it has lead to a huge increase in efficiency. This cost saving is real and is being passed onto our Clients directly.

The following shots are “actuals” from VALUSOLV®

Tag	A-101	Vertical or Horizontal	2. Horizontal
Description	DESALTING UNIT	Quantity	1
Tangent Length	12.00 m	Base Cost	138,100
Diameter	3.05 m	Module	3.82
Material	1. Carbon Steel	Adjustment Factor	1.00
Design Pressure	37.00 Kg/cm ²	Location Adjustment	1.00
Design Temperature	°C	Total Cost	527,600
Insulated	1. Yes	Comments	
Empty Fabricated Weight	t		

Tag	Description	Quantity	Total Cost
A-101	DESALTING UNIT	1	527,600
C-101	CRUDE TOWER	1	9,954,100
C-102	HEAVY NAPHTHA STRIPPER BOTTOM	1	190,900
C-102	HEAVY NAPHTHA STRIPPER TOP	1	196,400

AVC H. Heat Exchangers Air Coolers UNIT 100 CRUDE DISTILLATION

Tag	Description	Area per Bundle (m ²)	Total Area (m ²)	Tube Diameter (Kg/cm ²)	Tube Length	No. of Bundles	No. of Bundles per Bay	Quantity	Base Cost	Adjust. Factor	Total Cost	
E-112	CRUDE TOWER CONDENSER	200	2400	Carbon Steel	22.00	5.14	12.00	2.00	6	223,200	1.00	3,053,400
E-114	TOP LUMP ROUND COOLER	250	500	Carbon Steel	12.00	5.14	2.00	2.00	1	253,100	1.00	577,100
E-115	HEAVY NAPHTHA PUMP AROUND COOLER	40	80	Carbon Steel	23.00	5.14	2.00	2.00	1	68,100	1.00	155,300
E-117	HEAVY NAPHTHA PRODUCT COOLER	40	80	Carbon Steel	15.00	5.14	2.00	2.00	1	66,200	1.00	151,000
E-119	VEROBINE PRODUCT COOLER	125	250	Carbon Steel	19.00	5.14	2.00	2.00	1	151,100	1.00	356,000
E-125	DIESEL PRODUCT COOLER	200	800	Carbon Steel	12.00	5.14	4.00	2.00	2	214,600	1.00	978,600
E-126	ATMOSPHERIC GAS OIL PRODUCT COOLER	500	1000	Carbon Steel	13.00	5.14	2.00	2.00	1	424,900	1.00	968,800
E-129	TEMPERED WATER COOLER	100	200	Carbon Steel	22.00	5.14	2.00	2.00	1	133,600	1.00	304,700
E-132	STABILISER CONDENSER	140	560	Carbon Steel	12.00	5.14	4.00	2.00	2	164,800	1.00	751,600
E-137	SPLITTER CONDENSER	250	2000	Carbon Steel	12.00	5.14	8.00	2.00	4	253,100	1.00	2,308,300
E-140	SPLITTER BOTTOMS COOLER	60	120	Carbon Steel	24.00	5.14	2.00	1.00	1	55,200	1.00	125,900
E-143	DESORB REGENER CONDENSER	200	1200	Carbon Steel	22.00	5.14	6.00	2.00	3	223,200	1.00	1,526,700
E-156	CONDENSATE TOWER CONDENSER	250	2000	Carbon Steel	12.00	5.14	8.00	2.00	4	253,100	1.00	2,308,300
E-163	CONDENSATE STABILISER CONDENSER	120	240	Carbon Steel	22.00	5.14	2.00	2.00	1	152,900	1.00	348,700
Grand Total											13,914,300	

AVC VALUSOLV® is a sophisticated cost estimating and reporting tool which calculates values to a standard that is suitable for insurance/ asset management purposes using the basic design data. It totals by unit, area or location and for entire facilities. It also provides reports of varying detail.

AVC Summary for UNIT 100 CRUDE DISTILLATION

Type	No. of Items	Base Cost	Module	Total Cost
A. Boilers	0	0	1.1	0
B. Buildings	1	234,000	n/a	234,000
C. Chimneys	0	0	1	0
D. Compressors	8	1,320,000	1.8	2,376,000
E. Concrete Tanks	0	0	1.1	0
F. Cooling Towers	0	0	1	0
G. Generators	0	0	1.6	0
H. Heat Exchangers Air Coolers	29	6,102,500	2.28	13,914,300
I. Heat Exchangers Shell And Tube	74	4,831,300	4.36	21,066,500
J. Heaters	1	1,229,700	2.11	2,594,700
J. Furnaces	1	3,646,100	2.41	8,787,200
K. Pumps	74	2,806,600	4.29	12,447,500
L. Tanks	0	0	0.87	0
M. Transformers	0	0	1.1	0
N. Vessels - Vertical	31	4,534,200	5.5	25,758,000
N. Vessels - Horizontal	10	625,000	3.82	2,387,900
O. Vessel Internals	15	5,503,200	1.1	6,265,400
P. Miscellaneous	7	11,120,000	n/a	11,120,000
		251	41,952,600	106,951,500

AVC Summary Report

Location	Cost
UNIT 100 CRUDE DISTILLATION	106,951,500
UNIT 200 NAPHTHA HYDROTREATING	27,549,400
UNIT 300 PLATFORMING	47,333,100
UNIT 400 ISOMERISATION	35,666,300
UNIT 500 LPG TREATING	3,718,700
UNIT 600 HYDROCRACKER	124,391,900
UNIT 700 SULPHUR RECOVERY	23,015,800
UNIT 1000 STEAM & BOILER FEED WATER	60,819,700
UNIT 1100 WATER SUPPLY	3,732,500
UNIT 1200 COOLING WATER	13,487,200
UNIT 1300 COMPRESSED AIR	13,656,400
UNIT 1400 NITROGEN	2,047,500
UNIT 1500 FLARE	7,984,400
UNIT 1600 FIRE FIGHTING	7,021,400
UNIT 1700 EFFLUENT TREATMENT	28,870,600
UNIT 2000 TANKER TRUCK LOADING	18,522,700
UNIT 3000 TANK FARM	163,679,700
UNIT 4000 JETTY	295,994,700
984,443,500	

A major advantage of AVC VALUSOLV® is that it is tailored to suit our Clients individual needs and the following are examples of some of our speciality software packages:

- AVC VALUSOLV® - PROCESS
- AVC VALUSOLV® - POWER
- AVC VALUSOLV® - OFFSHORE
- AVC VALUSOLV® - METALS
- AVC VALUSOLV® - BATCH

For further information please go to

www.VALUSOLV.com

Location:	UNIT 100 CRUDE DISTILLATION	Replacement as New US \$
Tag	Description	
E-142.A/B	DEISOPENTANISER FEED BOTTOMS EXCHANGERS	335,800
E-143	DEISOPENTANISER CONDENSER	1,526,700
E-144	ISOPENTANE COOLER	229,800
E-145.A/B	DEISOPENTANISER REBOILERS	530,200
E-146.A/B	DEISOPENTANISER BOTTOMS COOLERS	288,200
E-147.A/B	SLOP OIL COOLERS	417,700
E-151	CONDENSATE FEED PUMPAROUND EXCHANGER	229,400
E-152	CONDENSATE FEED/SIDE STRIPPER BOTTOMS EXCHANGERS	186,200
E-153	CONDENSATE FEED/BOTTOMS EXCHANGER	322,300
E-154	LP STEAM FEED HEATER	328,800
E-155	MP STEAM FEED HEATER	297,800
E-156	CONDENSATE TOWER CONDENSER	2,308,300
E-157.A/B	CONDENSATE TOWER TRIM COOLERS	469,200
E-158	CONDENSATE TOWER SIDE STRIPPER REBOILER	333,200
E-160.A/B	CONDENSATE NAPHTHA TRIM COOLERS	474,400
E-161	CONDENSATE TOWER BOTTOMS COOLER	257,700
E-162.A/B	CONDENSATE STABILISER FEED EXCHANGERS	489,200
E-163	CONDENSATE STABILISER CONDENSER	348,700
E-164	CONDENSATE STABILISER REBOILER	225,500
F-101	CRUDE HEATER	8,787,200
F-103	COMBUSTION AIR PREHEATER	100,000
F-111	CONDENSATE REBOILER HEATER	2,594,700
K-101.A/B	CRUDE COLUMN OVERHEAD COMPRESSORS	1,800,000
K-102.A/B	COMBUSTION AIR FANS	216,000